VOLUME CIT

NUMBER THREE

## THE NATIONAL GEOGRAPHIC MAGAZINE

SEPTEMBER, 1952

New 10-Color Map of the Far East

Indochina Faces the Dragon

With 40 Illustrations 27 in Natural Colors GEORGE W. LONG I. BAYLOR ROBERTS

Down East Cruise

With Map and 40 Illustrations
31 in Natural Colors

TOM HORGAN LUIS MARDEN

Jungle Jaunt on Amazon Headwaters

With Map and 14 Illustrations 10 in Natural Colors

BERNICE M. GOETZ

Giant Effigies of the Southwest

GENERAL of the ARMY GEORGE C. MARSHALL

Seeking the Secret of the Giants

With Map and 15 Illustrations 10 is Natural Colors FRANK M. SETZLER RICHARD H. STEWART

Nature's Clown, the Penguin

With 26 Illustrations

DAVID HELLYER and MALCOLM DAVIS

Far East's Turmoil Shakes the Globe

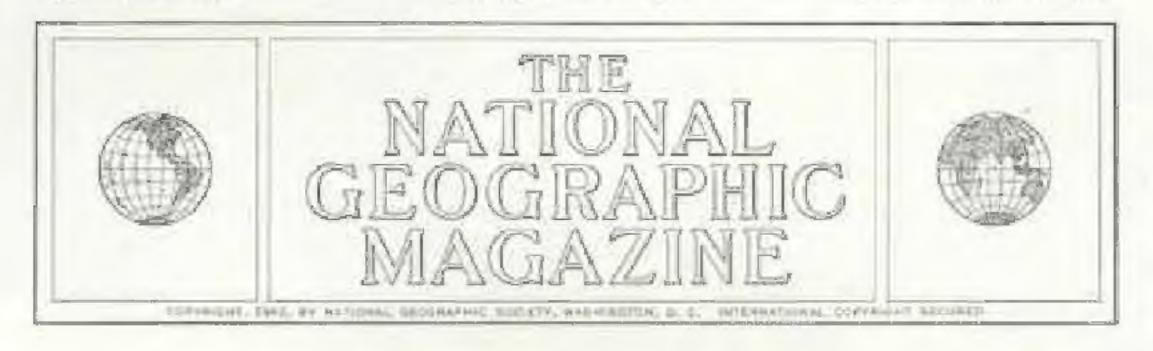
Sixty-four Pages of Illustrations in Color

PUBLISHED BY THE
NATIONAL GEOGRAPHIC SOCIETY

WASHINGTON, D. C.

6.00 AYEAR

60c THE COP



## Indochina Faces the Dragon

France and Her Former Protectorates Fight Side by Side to Stemthe Menace of Communist Forces in Southeast Asia

BY GEORGE W. LONG

With Illustrations by National Geographic Photographer J. Baylor Roberts

HROUGHOUT the age-old Orient, wherever time is reckoned by the Chinese calendar, this is the Year of the Dragon,

For war-torn Indochina, faring the rampant dragon that is Red China across 750 miles of frontier, that fact has an ominous sound.

Today the big question in Indochina is whether the dragon, breathing fire, will rend the Bamboo Curtain and lunge southward as it did in Koren. On time's answer bangs the fate of this former French colony, of Southeast Asia, and perhaps of the world.\*

## Islands of Peace in a Sea of War

To bring National Gloorapine readers an up-to-date picture of this Asian trouble spot, staff photographer J. Baylor Roberts and I flew half around the world and spent two months traveling by plane, jeep, heat, and horseback about this fabulous land.

Seeing embattled Indochina, we found, is like watching a baseball game through a knothole—vision is limited. The French and their native alkes hold chiefly the main cities and towns.

Since 1948 the French have abandoned colonialism and helped create new nations from this territory in Southeast Asia. Today "Indochana" is only a convenient geographical expression. In its place stand the young Associated States of Viet Nam (formerly Tonkin, Annam, and Cochin-China), Cambodia, and Lans, recognized by 33 nations of the free world. Working toward complete independence, they assume increasing powers.

The Society's new Map of the Far East,

published as a supplement to this issue, shows in detail the territory covered in this article and clearly delineates in color the barders of the three new States.

In Viet Nam, where most of the fighting has taken place, the similarity in the names of opposing forces is sometimes confusing. Viet Nam, revival of a historic name, means "People of the South."

Viet Minh, the name of the Communist forces, means "Association of the People." At the end of World War II, before it came under Communist control, Viet Minh was working for a free and better Indochina.

As I write, the only large-scale fighting rages in the tice-rich Tonkin delta in the north. Some provinces with strong local forces, especially in the far south, are islands of peace. Some are twilight zones, quiet by day, harassed by night. Others are frankly labeled "Viet Minh Territory."

Except in the larger cities, which have doubled or tripled their population in recent years, there is no absolute security anywhere. The war is a weird half-war of sabotage, hit-and-run guerrilla tactics, ambush, and sudden death in lonely places.

Travel in Indochina is largely by air: most road and river traffic moves in convoy. Seldom did we travel even a few miles outside cities without an armed escort.

"Sec. in the NATIONAL GEOGRAPHIC Macarism: "Portrait of Indochina," by W. Robert Moore and Maynard Owen Williams, April, 1951; "Straig-torn Indochina," by W. Robert Moore, October, 1950; and By Motor Trail Across French Indo-China," by Maynard Owen Williams, October, 1938,



Cycles Swirl Around a Traffic Circle in Saigon, the "Paris of the Orient"

A century ago, Vict Nam's capital was a mere fishing village; today, with its twin city of Cho Lon, it counts nearly 2,000,000 residents. Its European section has broad avenues and fashionable shops (opposite page). Most riders favor bicycles and pedicals. Police sometimes stop all traffic and search for granules.

At night villages close bamboo gates and put up highway barriers. Watchtowers, spaced at kilometer intervals, guard main roads; bridges are heavily fortified. The few trains that run bristle with armament and carry empty cars ahead of the engine to detonate mines. In the more remote towns men pack shooting from as they did in the old West.

Like the Koreaus, the people of Indochina are caught in the global struggle between Communism and the free world. After some six years of war they long for peace above all else.

The French, too, find the struggle exhausting. It costs France more than a billion dollars a year. Half her regular Army is serving in Indochina; there every year it loses more officers than are graduated from St. Cyr.

Many a French officer told us: "We must keep Indochina from Communism. It's the keystone of Southeast Asia. If Indochina falls, so in time will Siam (Thailand), Burma, Malaya, and perhaps the islands with all their vast resources.

## Saigon, "Paris of the Orient"

When we arrived in Saigon, Viet Nam's bustling capital, police in tropic whites, apprehensive after recent terrorist bombings, were stopping cars, pedicabs, and even bicycles to search for hidden grenades.

The city itself showed as concern. A torrent of truffic flooded its streets and swirled around circular intersections. Late afternoon shoppers and workers sauntering homeward thronged downtown sidewalks. Outdoor cafes filled rapidly as the aperitif hour approached.

In little more than a lifetime this teeming metropolis has grown from a rude, thatchroofed fishing village. Having tripled its population in the last decade, Saigon, with its Chi-



210

Provide Information Service

## French Paratroopers Search for Snipers on the Retreat from Hoa Binh

Communist rebels shaft constantly at the rice-rich Tonkin delta, but a ring of forts helps save grain and manpower from the enemy. This withdrawal was made from a Red-enveloped strong point muthwest of Hanoi. Was here often resembles a field campaign in Europe; elsewhere it consists of guerrilla raids.

nese twin city of Cho Lon, holds nearly 2,000,-000 inhabitants. It sprawls on a wide bend of the meandering Saigon River, 40 miles from the sea, and is Indochina's biggest port as well as its largest city.

Called the "Paris of the Orient," Saigon, in its European section, boasts wide streets and boulevards, spacious parks, imposing public buildings, palaces, and urban villas.

Fiere and there modern office and apartment buildings contrast with place French colonial structures. Fashionable shops line Boulevard Charner and exclusive Rue Catinat, the city's Fifth Avenue. Broad pavements are shaded by tall tamarinds and stately rubber trees, which youngsters top to get free chewing gum.

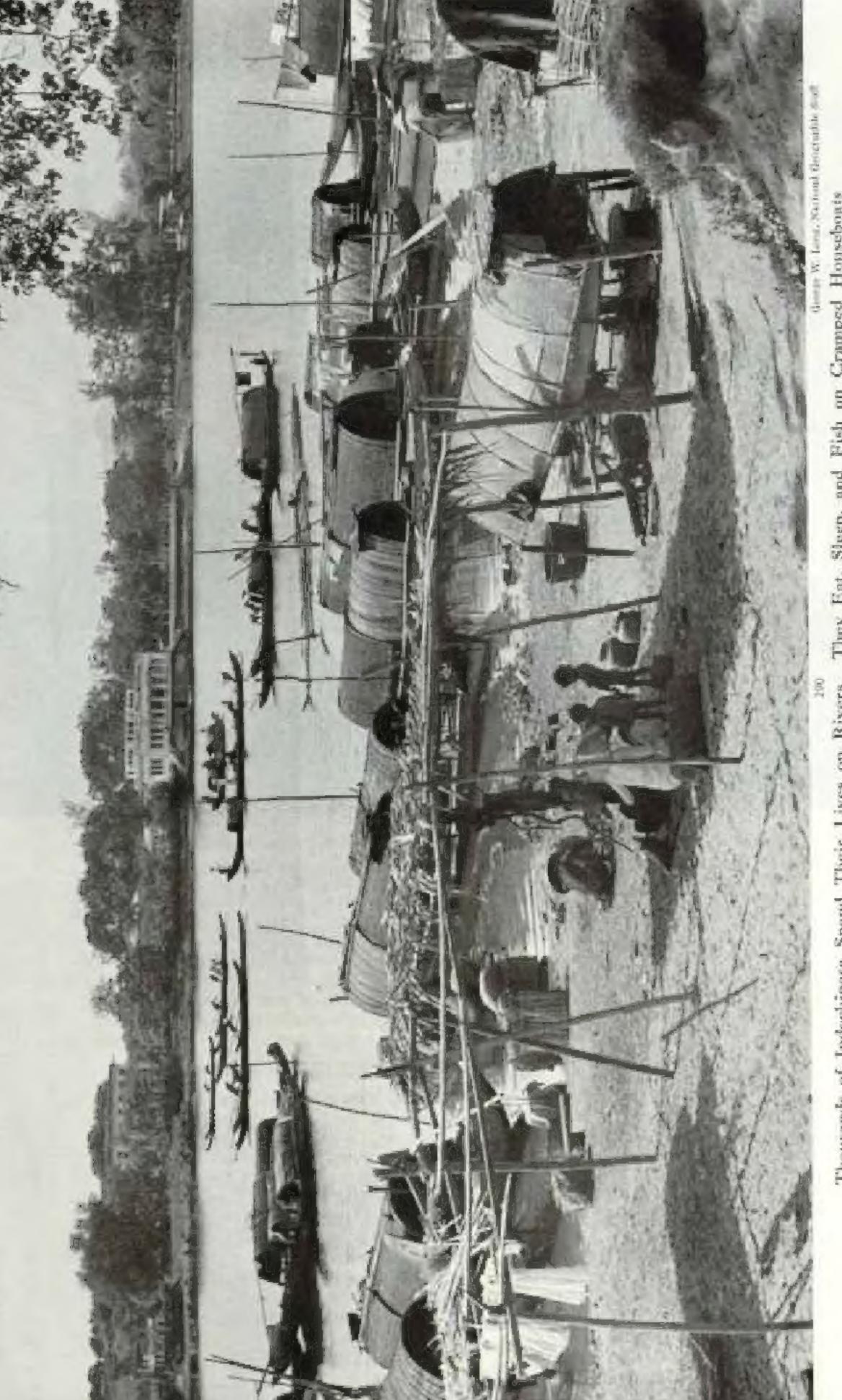
On Saigon's side streets and in its outlying parts live the Viet-Namese. There, and in the swarming streets of Chinese Cho Lon, the visitor finds strange scenes of endless variety and discovers that Oriental lives are lived in public. The pavement is but the extension of the house or shop (page 317).

At dawn people roll out of hed and make for the sidewalk, where they eat, wash, play cards or dice, take naps, gossip, and run businesses.

## Life Is Lived on the Sidewalk

Barbers hang mirrors on trees, unfold stools, and are ready for business. Dentists pull teeth and fit gold replacements before admiring audiences. Physicians cup and massage their patients. Herbalists hawk bottled cure-alls, and fortunetellers feel heads, measure palms, and divine the future. Squatting vendors sell anything from American cigarettes to lottery tickets and incense sticks.

Curbside booths on wheels, gaudily painted, cater to appetites at any hour. Their owners pride themselves on the artistic presentation of



They Eat, Sleep, and Fish on Cramped Houseboats Thousands of Indochinese Spend Their Lives on Rivers.

Fishermen live on the near Sampan men on the River of Performes drive part the French section of Bue by sticking poles on the bottom and walking the board's length. Fighermen flow on the shore. Mother and children rest beneath a bambon shelper which often doubles as a clothestine. Father (right) repairs a fish trap (pages 306-7, 335).

In the dry searon the river drains the take of the same name. When seminary swell the Melong River, its conducts, the Tonie Sap reverses itself and floods the lake.

Fish, feeding on submerged forms lands, grow unbelievably large and numerous (page 313). Inset: A hamber nets tak herded into a pen. Cambodian Fishermen's Houseboats Ride the Tonle Sap, the River That Flows Backward Once a Year



292 From Penatraent of Information

A Flooded Trail near Hou Binh Offers No Obstacle to Armored Car and Jeep Indochina's Red guerrillas seem everywhere and nowhere, threatening substage, umbush, and sudden death. Fast armored cars sconted the enemy during the French engine of Hoa Binh, a Communist depot, and the retreat three months later (page 189). Viet-Namese soldiers (upper right) prefer doppy jongle hats.

their wares. Roast chickens and ducks, lacquered bright red, hang by the neck in rows alternating with baby octopuses. Parts of pigs, deftly cut, grace china dishes. Sliced cockscombs garnish cured pigs' snouts and the heads and feet of ducks. Canary-size birds sizzle in pans. Bolling caldrons of Chinese soup send up mouth-watering clouds of steam.

Many street vendors cater to the national love for games of chance. A woman selling fruit-flavored ice on sticks holds four marked beans in a small bowl. A customer gives them a toss. If he wins, the sweets are free; lose, and he pays double.

Saigon goes to work early. While housewives bargain in crowded market places, office workers, clerks, and Army officers converge on the downtown area in a bewildering rush of bicycles, pedicabs, and small French cars.

At moon the tide reverses itself, and stores and offices close for three hours while the city lunches and enjoys a siesta. Then it's business as usual, until the convivial aperitif hour ends the day and ushers in the evening.

Sipping a cool drink at a sidewalk case, one watches a cosmopolitan cast of characters stroll by, hears a medley of strange tongues, and witnesses a dazzling international fushion show. Like extrus in a Hollywood spectacle, French officers, sailors, Foreign Legionnaires, bearded priests, black-robed nans, Viet-Namese natives, military police, Chinese and Indian merchants, and occasional Americans make their entrances and exits. A wide variety of uniforms—and an occasional Alona shirt—brighten the male strollers.

But the ladies steal the show, and, despite Paris and New York, it's the Oriental costume that catches the eye. Slim, prim Chinese girls in traditional flowered dresses lend gay splashes of color. Graceful Viet-Namese belles in white satin trousers and silk dresses split waist-high seem to float by, their trains blowing in the breeze. Their only rivals in grace



Smoldering Ruins-the Calling Card of Hit-and-run Rebels in Viet Nam

An bour or so before the author arrived, guerrillas pounced on Huong Thuy, put it to the torch, and retreated. French fire and bombs echoed in the hills as these dazed villagers poked about homes in salvage a few possessions. They rebuilt thatched buts in a Jew days (page 314).

and beauty of costume are the Indian beauties in flowing pastel saris.

The strangest sight in Saigon for many visitors is the riverside cafe that springs up aightly on the narrow quay near the foot of Boulevard Charner. By day, long lines of chanting men load and unload river junks on this sun-baked gravel strip. A small locomotive, putting and whistling, shuttles rattling cars back and forth.

At twilight, chairs, tables, rolling refreshment stands, portable kitchens, and a small army of individual vendors appear as if by magic. By dark this mushroom cafe is througed. Diners shop for delicacies by the light of countless oil lamps. For the thirsty, hand mills grind out sugar-cane juice, and small bars serve soit drinks and beer.

Music blares from portable radios brought by patrons. Battery-powered projectors mounted on bicycles show peephole movies. Small boys sell balloons, peanuts, and fruit. Occasionally the locomotive, as if returning for something it forgot, snorts through the scene.

## American Aid Flows into Busy Port

To see the war-busy port of Saigon, I craised the river in a Customs Office launch. Upriver an imposing display of French naval power tode at anchor. Berthed at the foot of Ruc Catinat, a trim cruiser glistened under a fresh coat of paint.

Downriver a dozen deep-sea freighters were mooted. Giant cranes, describing arcs in the sky, swong boxes and crates ashore; some unloaded tanks, trucks, and other U. S. military aid equipment. While I watched, the S.S. Washington, flying the Stars and Stripes, steamed into port carrying another cargo of American Aid.

A first of junks, some piled high with rice for export, swarmed around several of the seagoing giants. Sampans skittered like water bugs from junk to junk selling fruit, vegetables, and ready-cooked hinches. One, lined with white enamel, carried fresh water for sale.

Uncounted thousands live their lives on campans in Arroyo Chinois (Chinese Canal). Before returning we toured the watery main street of this floating village. Charcoal fires in clay pots were cooking lunch. Under rounded mut roofs people played cards.

chatted, ate, or slept.

Old men dozed over fish lines. Bare children romped decks or splashed in the water; toddiers, tethered for safety, watched enviously. Young women laundered clothes or buthed. Chickens strutted or sat on nests; flowers grew in dirt-filled packing cases. Hawkers in small skills passed, calling in melodious tones or sounding gongs.

## Ancient Drama with Wild West Touch

In Cho Lon one Sunday we visited an old Buddhist temple (page 302). In its dimly lit incense-filled interior, worshipers knelt on

mats before the ornate altar.

Outside, a crowd packed the temple courtyard watching a Chinese play. Actors in ancient dress told in words and song the story of a poor but virtuous student at the Manchu court. Jealous of the emperor's affection for the youth, wily courtiers continually plotted against him.

Then came a character os surprising as an Indian in an ancient Greek play. Whenever the here found bimself in real danger, an actor in Wild West costume swaggered across the stage shooting a cap pistol and putting the

villains to rout!

Chinese immigrants founded Cho Lon in the 18th century; since 1932 it has been fused with Saigon into one city, without, however, losing its identity. Big market for the vast rice crops of South Viet Nam and Cambodia, it also traffics in hides and skins, dried fish, pepper, tea, sugar, and vegetable oils. It makes cigarettes, soap, industrial alcohol, and matches, and polishes rice in 20-odd mills.

Planning to see as much of Indochina as possible, we chatted with M. Edouard Axelrad.

of the French Information Service.

"It's a big area you're covering," he pointed out. "Induchina is more than a third larger than France and three times the size of Great Britain. An American once told me that, placed on your east coast, it would stretch from Maine to Georgia.

"Rugged mountains and thick jungle cover 90 percent of Indochina," he went on. "Three-quarters of its 28,000,000 people are squeezed

into plains bordering the sen.

"Viet Nam, you know, is like two baskets of rice hung on a shoulder pole. The baskets are the fertile paddy-covered deltas of the Red and Mekong Rivers. The pole is the Annamite chain of mountains connecting them.

"The Red River Delta, where most of the fighting goes on, averages 1,400 people per square mile: it's one of the world's most thickly populated places. The Mckong Delta is also heavily populated and intensely cultivated. Largely because of these baskets, Indochina is a big rice exporter, and Viet Nambas nearly six times as many people as Cambodia and Laos combined."

Our first trip out of Saigon was a three-day tour by automobile through the flat, fer-tile Cochin-China rice basket. Leaving at down, we waited at the city limits with a long line of trucks and buses for the nighttime barricade to be lifted. Peridlers did a land-office business selling roasted ears of corn, cane Juice, Chinese soup, patent medicines, and

morning newspapers.

Past miles of paddies and hundreds of guard towers we drove to the provincial capital of Ben Tre. Everywhere black-garbed furners cut, threshed, and stored a bountiful harvest. Big gray water buffaloes wallowed in shallow ponds, and men poled that skiffs filled with golden grain on toadside canals. Occasionally large banana and cocoant palm plantations broke the seemingly endless rice-field pattern.

## Progress Comes to Ben Tre

The governor of Ben Tre is dynamic young Col. Jean Leon LeRoy, who heads a provincial army called Mobile Units for the Defense of Christianity. His province, completely cleared of Viet Minh, is 65 percent Christian.

Under LeRoy, amazing strides have been made in Bên Tre. In recent years schools have quadrupled, students tripled. Hospitals and clinics have jumped from three to 94. Miles of roads and acres under cultivation show big increases. Absentee landowners' share of crops has been limited to 20 percent. Population has more than tripled since 1950.

The colonel was away, but his Director of Public Health and a young heutenant, veteran of many battles with the Viet Minh, took us in hand. Touring the town, we saw a large shipment of American Aid medicines that had

just arrived.

Luncheon was served in a pavilion in the middle of a quiet lake, to music played by a string orchestra. Then in dusty cavalcade we all, including the orchestra, drove to Binh Dai, a fishing village near the sea on a wide breeze-swept mouth of the Mekong.

There we met town officials, mingled with shoppers in the market (exotic seq creatures a specialty), and visited a rustic factory making muoc mam, the strong fish-essence sauce that appears on every Viet-Namese table.

Passing a big cage near the market, we



S National Generality Switz

295

Medicheron by George W. Levy, National Sengraphia Sur-

Girls in Gay Hats, Split Dresses, and Satin Trousers Reflect None of Viet Nam's Tragedy Though violence and terror threaten everywhere, life's routine goes on. Crisscrossed bamboo stakes mark the approach to a routhide watchtower in the Mekong Delta, one of thousands guarding the main highways.



that Administed Mermine the Capacity the production of the first of the production of the form Adding Garge Lette, Sips Rice Ware from a ?

## A Mother Crew Pines The Shels with Rubber Bands

The state of the second to the second with the

The first state of the familian of the familia

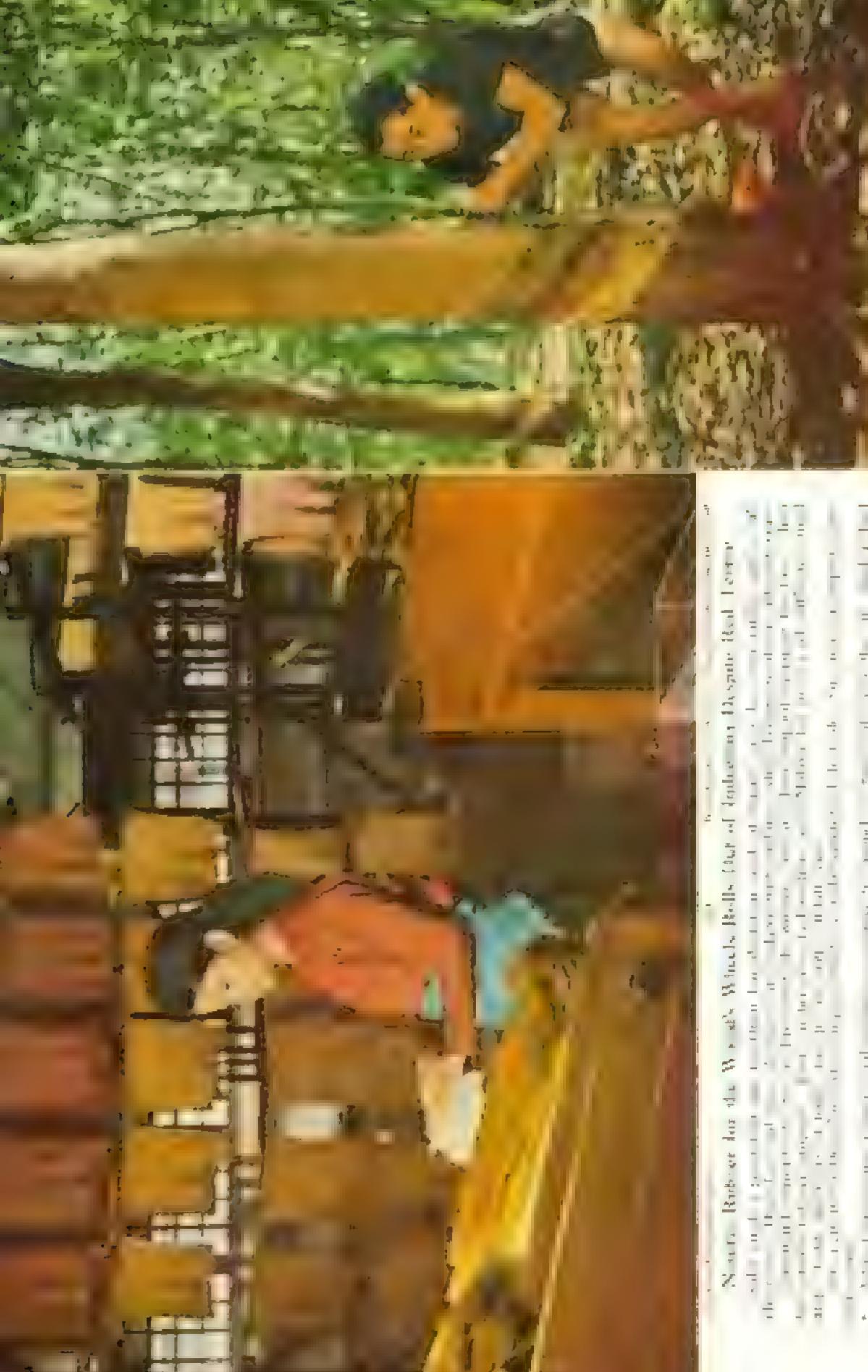
The state of the State of the little state of

The way of a propertion of the contract of the



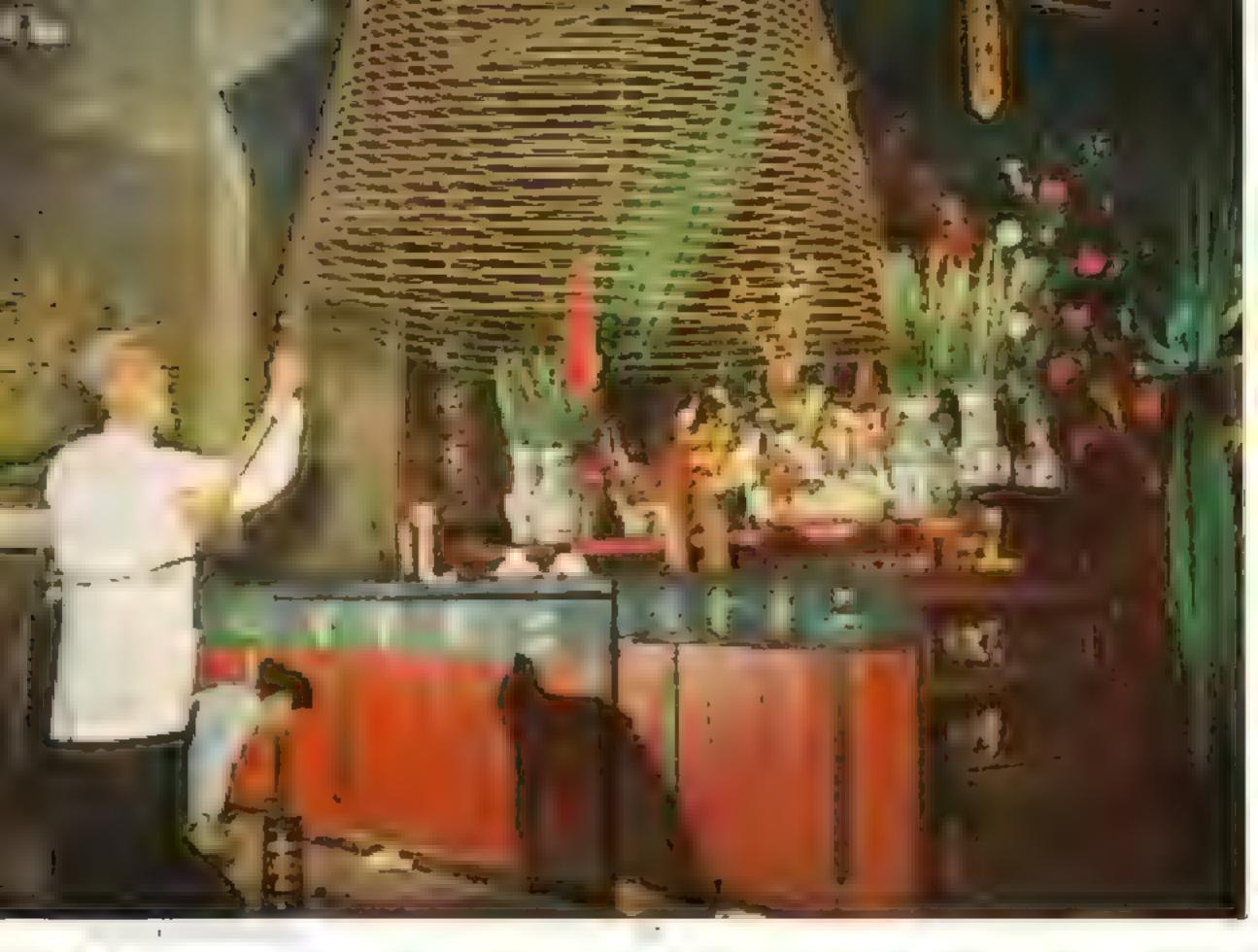


| napezi 1 stores from Fred



the property of the state of the state of

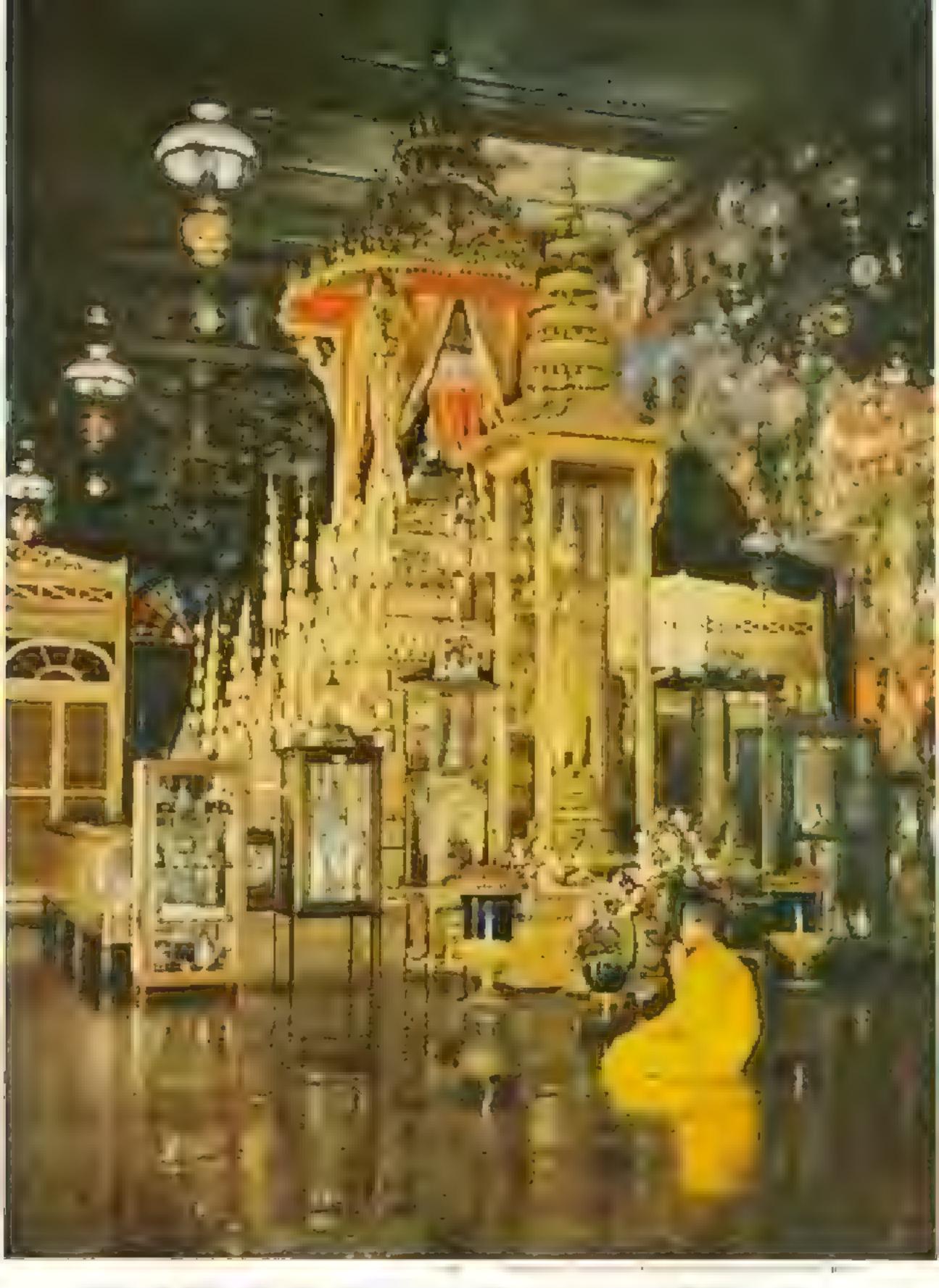
Vice-Samese & min-Peters, Wood Carrie, Princing one Brenze Wood After the contract of the contract of the line of the contract Ben Ha An Samel Revises Old



## \* A Worshipur Lights an Incasse Spirits For and Fragrance Last for Days

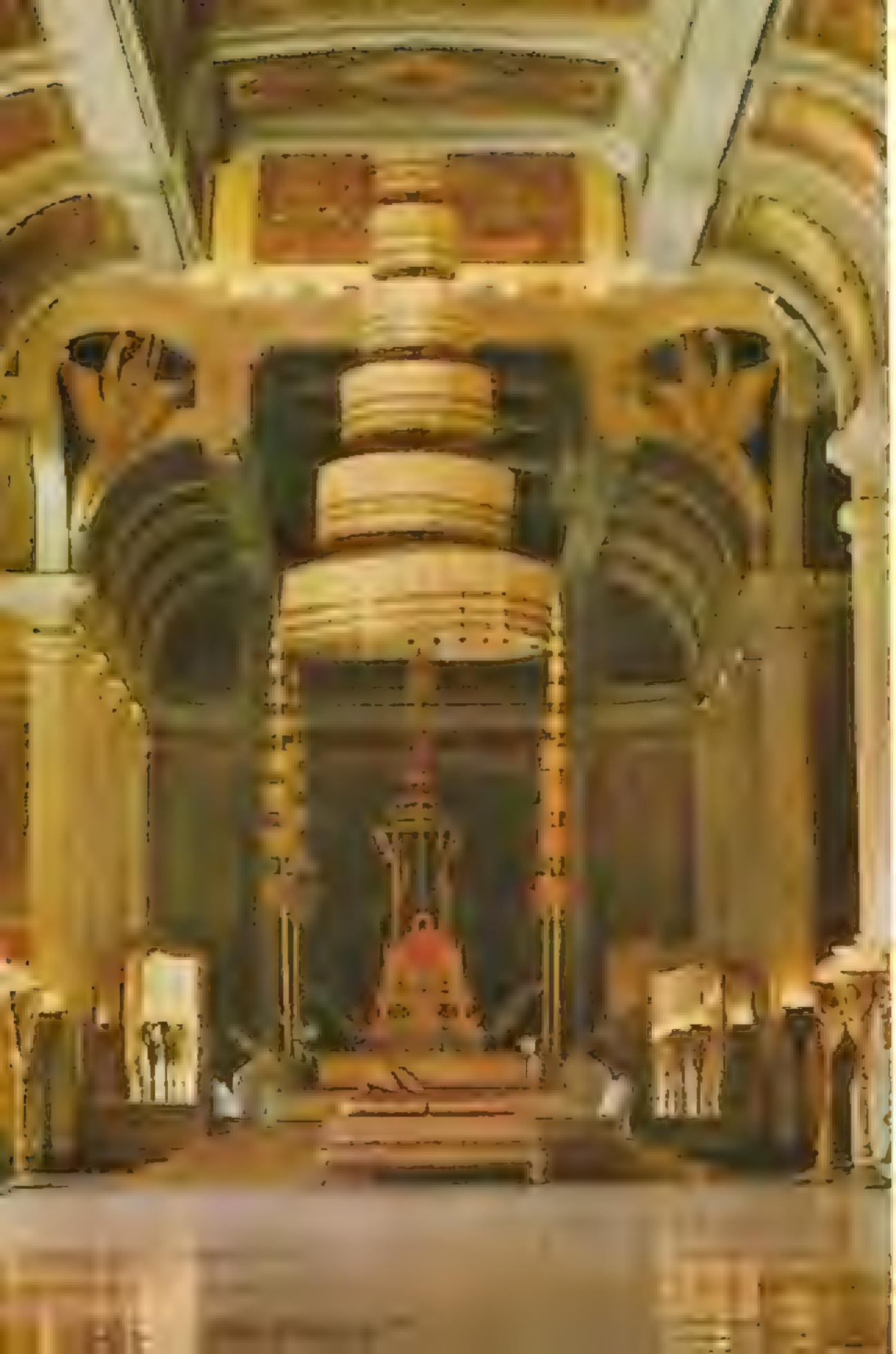
## Phone Per a Chil Sells Society Sliged into Pers Like Susp

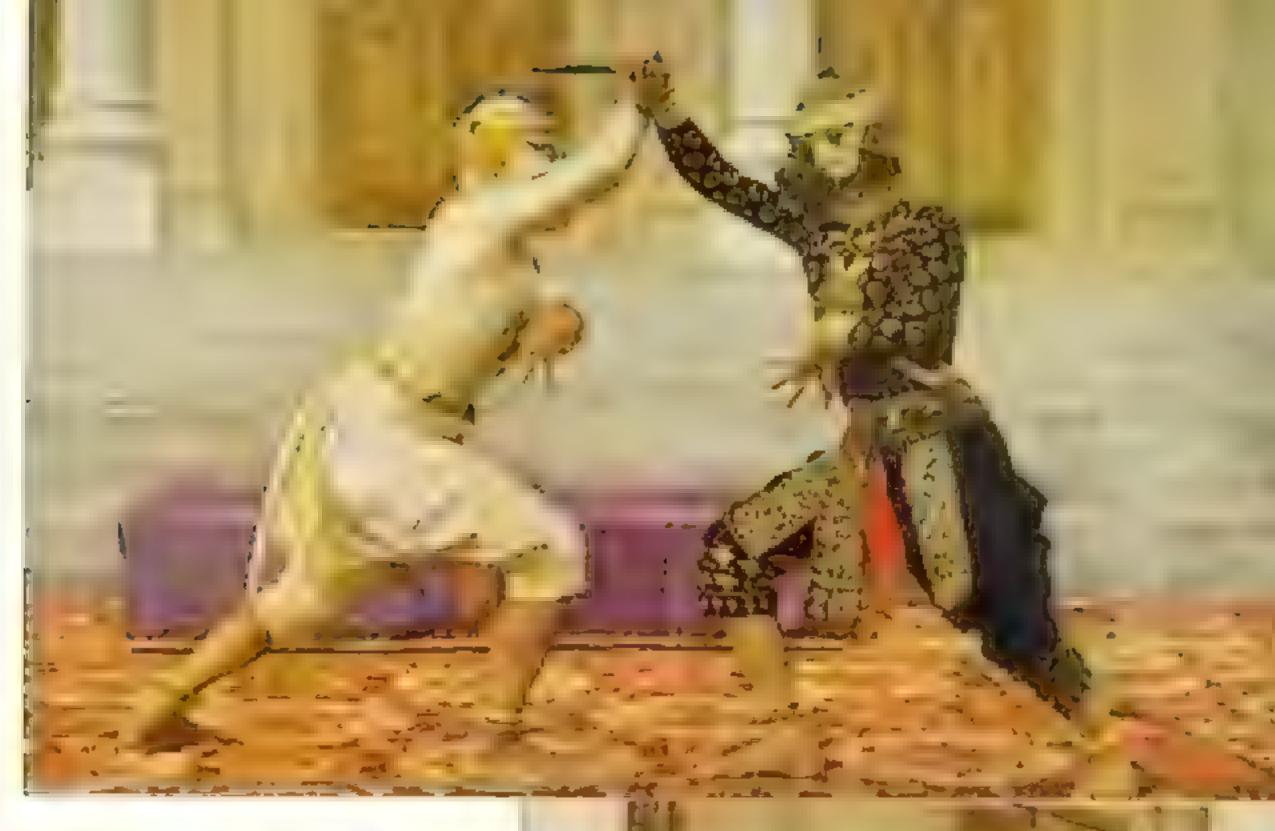




Golden Buddha under Glass Stands above a Floor Covered with 4,700 Silver Tikes

\ \( \text{to a real of the first of the f

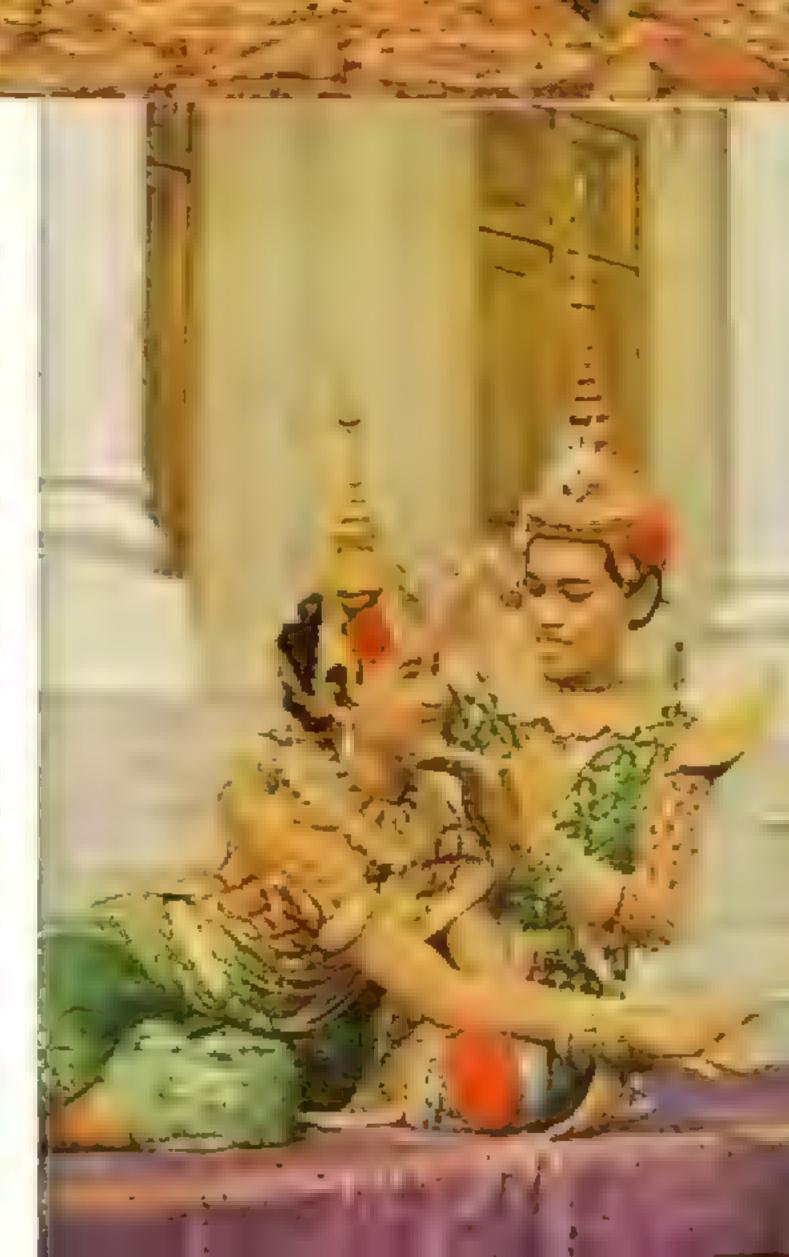




## Reval Dancers Duel on Physics Fenh

And the state of the tenth to the state of t

, .





Workers Chear Words Chagang the Most of the Old Walled Cite of The Sean of the Character of



Hatched Descript War Refragers Crossdan Warr Front

i of a second of the character of the c

# 11 114 i Ts Ē

## Mother and Sections of the Rever



Medel Santer the West's Remaine Import on the Orient's Ancient Service As a Sold being May and a 1987 Scale



Fuller and Sun Well's Pedal Hammite's New System Care but Get Nowless

The Control of the Contro

watered a boy go in and catch half a dusen will darks.

For dinner totdabt," said the heatenant. Dance barried out to be a three-hour 11-course barriage in the town countries bouse, a templelike building consider with handlist altar and incerse. Next morning we att a seaton of breakfast in a reverside I ungalow while the ever-present orthestra played Viet-Namese some and the fishing fleet put out to sea.

Returning to Ben Tre, we left our friends and drove to Can Tho. seat of power of the Hou Hao (premis need 'Wah-bow'). This group, numbering almost a million, has its own telligion, army, than, and armament factories. Like Cilinel LeRoy's full were, the Hou Hao kee's the province deared of Viet Manh.

American And has constructed more than 430 palm-thatched dwellings around Can Tho for war refugees. We do we to one small settlement loudt on the site of a once-thriving town completely mestroyed in 1947.

Apparently the refugees were prospering. Mounds of veilow rice awaiting shipment tlanked the village's single street and filled the front mouns of prost of tlages.

Returning to Saigon, we journeyed on a later day to faladous Tay Nanh, Holy City of Cuty daism, the Universal Religion. Sun-baked and dusty, it has exposed on a that plann cear the foot of broading Black Gadaess Motmatein.

Synthesis of bull a discentaines, including Christianity, Cauchism was featherd in 1920 and ciamos 2.000,000 adherents. He church organization repies Rume, with paper, carrinals, and histops, but its clahotate rittal is strongly Omental. A galaxy of saints maintes Victor Hugo, Joan of Arc, 5th Ent-sen, 5t. John the Baptest, 5t. Bernard, and the Jade Emperior.

On the temporal side, a cabinet of nine, who are also the rich dignitaries, directs the theorements. State—An army of 20 000, veterans of a hundred battles with the Viet Mach, protects a. Weapons, handmade in small local factories, are faultless copies of Western natoriality at us.

## Volunteer Lubor Builds Candai

Caller is a give try to ten days of labor a month to the state, building houses, nuking tonds, clearing hat d. Some 20 refugee lamiltes a day drift into Tay Nish. Fach receives to time a small daub-and-wattle cottage and a parcel of land.

Coolaists stress education; were 17,000 students attend which in The Nuch. In socition, the church supports and claudes 1,000 war orphans.

In hundreds of small shaps littered with shavings, curpenters fashioned farmiture, Tay Nindia chief snarce of income,

Before more we visited the exthedral, a beauty fantasy that combines beauties of church, mosque, and temple, to see a Cauda, service.

At the stroke of 12, white-rober, men and women fleq in and scatted themselves on the polished fleet of the nave between rows of dragon pillars. Musicians in the balcony played Oriental music, and a choir of a book sirks sauge. Before the ampate alter high priests in scattet, gold, and turquouse robes struck googs, barned Incourse, and tighted papers canta ning prayers

Watched by countless "Eyes of God," the Goodai symbol, the dignitaries sat throughout the long service without a flacker of expression, occasionally bowing and claiming in unless.

Later we had an audience with white-rober Phase Cong Tau, specitual leader of Candaism, Over cups of perfumed tea he told us of its temporal arms.

"We are trying," he said, "to built, a civilization in the junge, to make a retuge in these troubled times. It's very this cult. Like your own Lord, we live and work among the poor."

## Gunz Guard Rich Source of Rubber

To see a typical Indochina rubber estate over ting in wartime, we flow to plateau tountry north of Saigen. Parklike groves of dark-green trees appeared beneath our wings long before we lander on the company airfich in Quan Lai (page 300).

"At this was jungle a generation ago," Director Jean Simon told us, "After World War I we brought in the first rabber trees from Ceylen and Sumatra, now Quan Loi has a toldion and a balf. Two caber near-by estates don't be the figure."

"Much trouble with Viet Minh?" I asked "Fairly quiet lately," be unswered. "They now consider rubber estates national property, so they nou't destroy the trees any more. But they terrorize the workers we have fewer than half as many as before the wat. Even so, we put out 70 percent as much rubber 45 000 tons last year."

Here harbed wire and spit-bambon fances surrounded villages and important huisdings. At dark countless gates were locked, road barriers put up, sentries posted, and search-lights switched on Mervily armed sound with radio-equipped peeps patrolled ground the clock.

Inviter to cinner by fellow officials, guests came with outon the weapons and stacked them in the ball. Most of them brought the children, too, and put them to sleep upstairs Leaving, many a father carried as infant on one arm and a carbine on the other.

Branching out, we flew to Phouse Peob, mysl capital of Cando dia (pages 302-304)



Photographer Roberts Ahms His Courses at Cambridge Rose Dimeers

K to No. 16 in Situationsk, entertaining the Nath of the stage ment in Phresia Peach, excessor, him to the course present a line has been total in an age to with transports rhythms and gesture. Not a read price to taking was allowed. Page and the transfer of the stage was allowed.

There we liked in the first Common and a receible of a trade of the first seed Since galese trade of New to an act has the city of all the states.

Ashred it he appeters for all and a limit of the literature of the

Located where the look was River its factoria, Phonon Pententries and Character Christian of the quark Bank form product the Exerteck of the Character by Sangan

Like most in bothma cities, Cambodia's repital is three in one: En opens, Clinese, and notive.

Files put all and he follows, the conjunt of the following the file of the fil

I. bort plane flight from Saigon to Platon. Feath projects visitors paid a different water

their Cambodia to les received not interpreted and interpreted

Nor has Cambolken writing bear of our of to Roman letters like Viet Names at necessarieful, rounded lines of Sans and

## We Dine with the Cambodian King

With American Charge d Maires Don V. thett, we attended a domer party given in the royal palace by the Majeste Nor dome Sihanouk for Norms E. Dodd, Director General of UN's Food and Agranditure Organization.

After dinner the county King, walking bother a picker indicate a fallow of the factor indicate produce the factor of the factor of the factor of exotic music, the court troupe the factor folk tales and legends from the factor of the court was with the graceful gestures and loss, said they have a factor of the Combodian dates.

Next morning, through the courte-y of fits Excellency Nhiek Near Chief of Protocol, we plottegraphed the dancers outside the throne room (page 505 and upposite).

I noticed a score of humble hateful men and women. Some carried hinches and had

apparently traveled far

When I asked who they were, His Excellency replied "Subjects of the King who have grievances of pet tions. Every Thursday His Majesty hidds provide totaliences for such people. Even the hundlest may cume."

## A River That Reverses Itself

Hefore leaving Phoem Penh, we took a two-day cruise up the Toolé Sap River in Madelon, a cal in cruiser. Madelon was old and show, but on her mast she wore a gay corsage. With us went an escert of eight soldiers, armed to their gold teeth.

No ordinary river is the Toule Sop, During the dry season, November to May, it flows into the Mescag, but the rest of the year, when heavy rains swell the larger river to thou, the Toule Sap reverses used and down into the Great Lake II notatally drains:

Then the lake expands to four times its usual size, and fish by the multions spacer and grow large in the submerged forest land. During the main fishing season, October to landary, take and river are alive with fish. They yield 10 times as large a catch perwatery square inde as the feshing ground of the North Atlantic and the North Scatter 2011.

Hom after home Maderon charged apetrean through backwoods Caraboana, occasionally threading her way through burn on thats of

fish trops.

Mile after mile the jungle held sway strange hirds, disturbed by Madelan's engine, took off in somalless flight. Here and there note hats a continued the lonel ness. In such places men in shallow capout skitts fished with languages, note, or hasket traps. Twice we passed fleets of junks with threathure sails, glating shouly downstream.

After dark we arrived at Kompong Chinang and ned up to a battered Chinese river steamer. Watched by a gallery of paratual lines, we crawled through her and chinbed

en embankment

Just as we were wondering where to find indaine, a jeep drove up and came to a screecking halt. Out climbed a wed-armed fremhuman, the sheatf on patril. Amazud that we had made the trip safely, he offered as lodging and took us to a restaurant

Througed with French 5 liliers and townsmen, the smoke-filled "Istog dow" was an Indochina version of a scene from an American western. Noncome and civilians in thoppy casupaign hats were pistols and belts of grenality and carried carbines. Conversation centered on the latest "incident": discussions waves bot on the merits of various firearms.

Kongeing Chimang by daylight turned out to see a dusty frontier town of 15,000. Besides fishing, it makes fine they cooking pets which are shipped all over Indoctors. They give the fown its name, which means "Where the Pots Erdurk."

With the sheriff and a one-man army named Georges we went further upstream. Some we reached a bank to-bank wall of bamboo, a weir for catching fish. Atop the hig central gate was a small pageola, with paper streamers and Incerse sticks, to placate water spitots.

Mon strive fish on the river as common drive cattle. They drag weighted tots upstream toward the weir while boys in digouts bong sticks together and slap the water with padiales. Slowly the fish are forced to the wail, through the gate, and into the ang correlationships

Flying next day from Philom Leph to Siem Reap site of the fabulous rules of Angkot, we saw many such weirs, shaped like broad

arrowheads or crescent moons

In Seen Reup we strolled the banks of a prim-shaded river where water wheels, irrigating gazdens, creaked lazify and formics bathed in probs. School children, carrying Combodium flags, awarded the finish of a bicycle tage.

## Capital of a Vanished Empire

With visit as from four continents dresser in shorts shirts and shorts, we toured the vast rains of Angkor, hiking miles of jungle paths, exploring labyrinthine passages, and viewing funtastic murals. Angkor, legion in fungle for nearly 500 years and unovered by French scholars, was the resplendent capital of the mighty Khmer Empire, which covered much of Southeast Asia from the 9th to the Lath centures (page 298)."

By moonlight and the ecric, flickering light of rash torches, we watched the ancient dances of Cambodia, in perhaps their original setting before the colossal temple of Angkar Wat.

Seturning briefly to Sagon, where Viet Names were relebrating their and - to the outbody, we flew to air canditioned Dalat There, at 4.9.10 feet, firsplaces replaced redicted fant in our hetel room, and my winter suit came out of histing.

Chaletlike villas symulae this resort town Pine-card on untains, clear lakes, and spor kling waterfalls of the attrounding region remunded me of Campbus in southern Austria



Touchbrus a Bone Les a Mest Girl ver Chains No Teach

The transfer of the second sec

It is the the area of the come of the come of the Burgarest Litting dinner in the consecutive two dinner to a magnificent timet sain on the wall

'Shat him in now own gamen," said the appretur. 'He was stealing my pigs, thakme, and does. Weighed more than 500 and a

Dara-skinned Moi tratesmen withing the rank in b factories backed as if he at stepped from the Stone Age. Many of the principle people live in the highling to a value, where they were pushed centuries agony the Annualice.

Atop the easternmost ridge of the Annamite Lee we looked out on the South Chira South atop a rarrow constal plain—Viet Minh regret is se were told. There we met a lee is Rushie, a lanky soft-spoken solder of or-

time with stolling the With its squad of Morses and an autitary with a squaded the production of the p

the er ledochina such a time in spirit to the volume who for releasing the first true of America, and here wight in ex-

Arrest to country in a larely perceptible mana to 1 Mar viluos for the cree was a minetal arrest to 1 mark to 1 mark this photograph, he disappeared inside and cree call.

A large to a spate of Moi hospitality with a second live of a with the first with

With the whole village we adjourned to a feast to bottom to but apicits Barahou law will be a feast to bottom to but a picits Barahou law with law of a picits but a feast a picit law of a picits but a picits but a picit law of a picits but a picits but a picit law of a picits but a picits but a picit law of a picits but a pi

Printle I noticed several more is on much that no we write lengthering and we art to the without more Mad hospitanty,

### Afterwath of a Viet Minh Ruid

He are to Him once the Imperial capital of a Annien we had in test stark view of the star of a Sportly be a one arrival Yest Yest and the law relacked a village capital post and give A dozen fire support in Annies and contact the support to the supp

Described with a swar dere later of the same that a later of the same that it is a later of the same the same the same the same that a later of the same the same that a later of the same that the same that is a later of the sa

Lattics town the at making through of ways breath for the stander of the lattice of the stander of

and the artillery ata the - ir of French dive launds

Several Jays later when to by an idea to the restriction the prime tall swing In Hear See Lange Letter to the Laboratory I of the Total The Both Williams of the Both Co. T. pery that hates are the place

Flyic in the second in 1 1 1 2 20 1 1 2 5,6rini todal est per el pel al significant were serving the file of the file her a the public of 1111 " LE Lell Sone [ [ n 1 ] 1 ] 1 ] Beard, especially it cause

W found the city b -thus, overcrowded. Trafe raised clouds of dust in ins palm-fripged at the and sugged back and tell at ross the temps rary sterl. er a that spans the R. . Perfumes or Hiray Gizze of 19, 11, 7,

Heart of old Hee, a d of Annam, was the spapork the rest of the BEALLY AND THE B sof letterids from the tweet the walk of News Namese traops train within the inner cu . ' The imperial prince and several other royal care mgs busy han a be . w Vact 31 nh

In Ahai lamb Massicia we met its barelens i. Charles in

North School Committee of the of the they be seen by parties in 11 9 3 1 3 1 3 4

I present on governor the Rouge March William wrete the mass about his travels on the old Mandarin Road," he said. "He took my pitsure in ceremonial court costume. Here it is."

Notice or, in collection their to ops recovered the recient seal and sword of Annum, taken by the Met Moth. We const ler that a good omen."

Mane I strolled along the River of Let-Life seri hille 50 publishes time, Fishermen push-cowed tapks, while the parabout of the for and I real Ment collaboration of the State I women, their ir alsers hake I hach, pounded and scrolded bundes

laces with a truck and several ice - full



Buy and Posteda - Freture in Indoction's Landscape t to get be correctly appropriately and the second in it is the factor of the second of the sec brill tell of the first state of the latest and the class of the

County Server William received the on the awearove to the grazifion be welld to green valley outside that. Take of transport much the warsesing acttrestion of their elaborate testing place We found the tumbs faultlessly cared for, ready for visitous who rately come in these troubled La ....

## Brand Close to the War

We has caree of detect fish and to be seen in sauce, we there in a smub-mosel for all the Hand, their ty of the fettile Red (Roage). River Pulsa and capital of Induction until 11 11

Street names in the teening that Chinase section in a guine to the laper than has the arrest Regarded to stead of

Arm 3 h 1 75 cr \*\* 6 p m \*rm at a late of all the Name of the late of t 



Landing Craft a G it from the U.S., Parrole North Viet Nam's Naire River

the second of the second of the converse of the second of

and trace spl. II. are spin bliss.

Serial to the field transfer its constitution of the series of the product of the series of the field to the series of the serie

In all provides the transfer to be the service of the transfer to the transfer

In Maria to the ritadel, the Proposition of the Caronial Contains and Caronial

It is present the sunt. It was to be a sunt of the sun

Architectures the brown with a rice St. and the action of the second sec

the lateral for the first the contract of the contract of the first the contract of the contra

## V at Minds Chever at Districe

What respectively in we are a fine to the constant of the constant of the constant of the constant of their arms, and either heleropte in ander-

The first of the second for the second of th

as a part of a part of the first of the rest of the Minh come in and take the contract of the rest of



A Charles Stops coper Hangs II s Ross Ducks Up to Public Gaze in Saign in

tres or an energy of spring the presulting

In a property to the state of t

principle

Helica is a second

Late New 1878 these descriptions of the Same 1878 the Same

With the property we placed from the at the transfer of the tr

## American Arms Au Freigh

The 1st examination to the different such as conserved the same of the same to the different such as conserved to the first of the firs

fire the second of and the second of the sec

We saw plenty of evidence, too, of American technical and economic aid. In Hanol alone we visited later-scale housing projects for refugees, inspected a recently bushed artisans' center which aims to restore the chafts of Tenkin, and attended night lateracy classes taught by Americans who votunteered their services after office hours.

At Son Thy I watched newly installed American Diesel engines pump Red River water to prigate some 12,000 acres of rice land

Throughout Indochina American experts and dodars have at led the war-needy, erected prefabricated hospitals, provided fertilizers, and dig wells. They have distributed meditines, provided generator driven community rulios to keep villages informed, resurfaced roads, built bridges and harbor installations.

I ublic health officials have anunched training courses for marses, lought malaria mose amount of teachoma sufferers and victims of other dread cheeses. Eleven mobile tracks carry recorded educational talks and movies even into mental space.

With a planel of tartaned Moroccar troops, we flew to Lui Chan, deep in mor name near the China bordet. Our wing tips seemed to brush the walls of its narrow valley as we susoped toward the pasturelike airstrip.

## To a White Thui Shangri La

In this Shouri La valley we felt as if we had reached world's end. Isolated by Viet Mian territory, Lal Chas keeps touch with the oatside only by outland radio and one commercial plane a day, weather permitting. In the rainy season it often wasts more than a fortnight for a plane spage 3281.

This frontier outpost, typical of many inladorhina, or the center of the White That terminy. Across the Black (Noire) Siver homebook all. Manny Lai, cap tal of the That

ernfor eration, sits on a bluff.

With headquarters in Lai Caau, a handful of French officers and men with 15 companies of That partisons control the region and keep an apprehensive eye on the Charese transer

Close kan of the Siamese, the Fran-called White, Black, or Red, depending on the color of the women's blowes—inhabit the valleys of rugged North Viet Nam and Lans (pages 319, 325). At other altitudes am, in other sections live the Man, Meo, Nang, Photong, and Lolo.

The Thai grow tice, keep livestock, hand, and fish. The men wear a Chinese pajama-hke garb: the women wear long black skirts, tight fitting blooses (as a ned with silver light egs, and barge cartwheel in its.

With English-speaking Capt. Chicles Breton

we explored the valley commutically named the Valley of Love and hiked high in the rount ins to a Men settlement. Unfortunately, Muong Lai was in deep mourning for the chief's son, denomer in a river accident. At intervals a deep-throated cannon spoke the people's sorrow,

Lai Chan was loath to let us go. For most of two days, thouls kept the valley scaled

With time on our bands, we wasted the single street browsing in Chinese and Indiau shops. Considering that all merchanise must be flown in, the stores carned a varied stock. American products were conspictous—ink, soap, household oil, cosmetics, and tooth paste. Chinese tailors kept singer sewing our bines humming. The fown hather shoved beads while his wife soil (thinkens,

Thei women bargamed for cloth of clustered about artisans making silver on kless thirtle girls played a game like jacks with pelities.

In some stones male gustomers were treated to a free smoke from a rack of water pipes. Occasionally a drum beamed from the local casino, enticing shoppers to try their luck at a game of chance.

## "Spate Parts" to the Reseue

Hack in Hand, our friend Axelrad Joined us. In a hattered taxi we drove to Halphong.

eateway of the nestal

On a jump seat sat a small loy in greasy overalls who beld a latchless door close fand every 20 miles or so refilled the radiator from a roadside parity and added oil. We call be land "blace Parts," which was prophetic. With a lend being we lest a shock absorber, but S. P. pulled a new one it on the luggage carrier and installed at le no time.

The diffusion little indication of its high population. Lary baral or trees hid villages; out, a few farmers plowed fields in preparation.

for the runes

Base indeed is Harphong, the Marselle of ndarhim, One of the largest cement factories in the Far Fast braines write smoke day and night. Shiny brass plates of continercial farms cover the façades of downtown buildings. Ocean-going freighters, stern to bow, line the quays, the U.S. was conteried they bring crams the city's face track and other big depots.

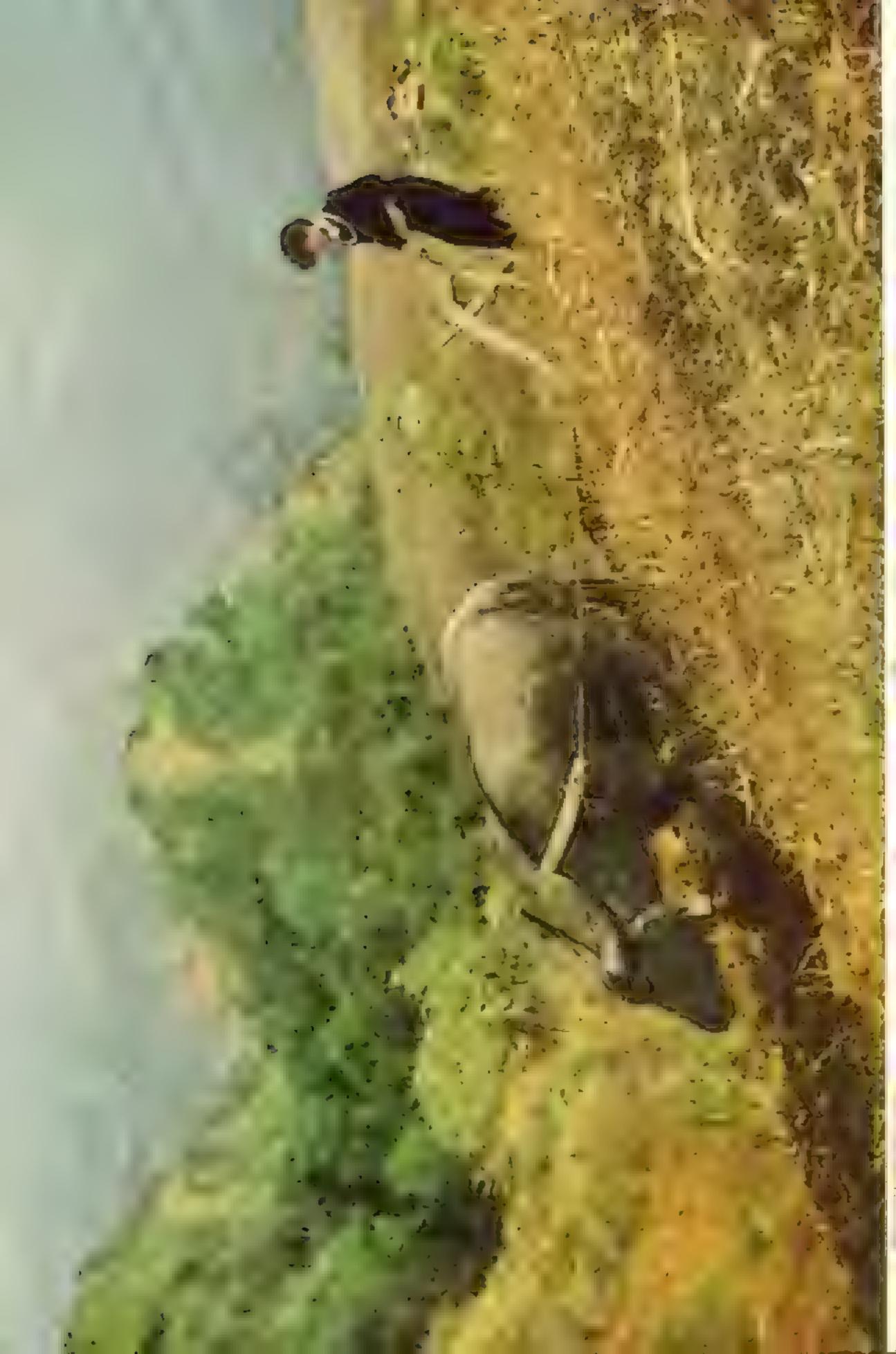
## Fantastic Rock Formations

In a harbor-putrol beat we cruised Indoching's methods; coast to fabulitis Bale d'Along. The matchless beauty of the hay is one of Asia's scenic wonders. Ten thot sand rocky islands of every size and shape stat its fade-green waters. Credulity is strained, imagination consciot—there's l'isa's Lenning Fower, here a crouching dimesaur, over there a fairy



When the tame is not in the Conserance by Tappina, Carrybool Hats and Habert Faces.

When the tame is not in the tame to be a first point and its order to be a first to b





in Silver Nece are Guides His Belled Reflets in the Mountains near tai that the come beloner on the health in the minimum of the property of Pulling a Single Rein a Mee Plankop

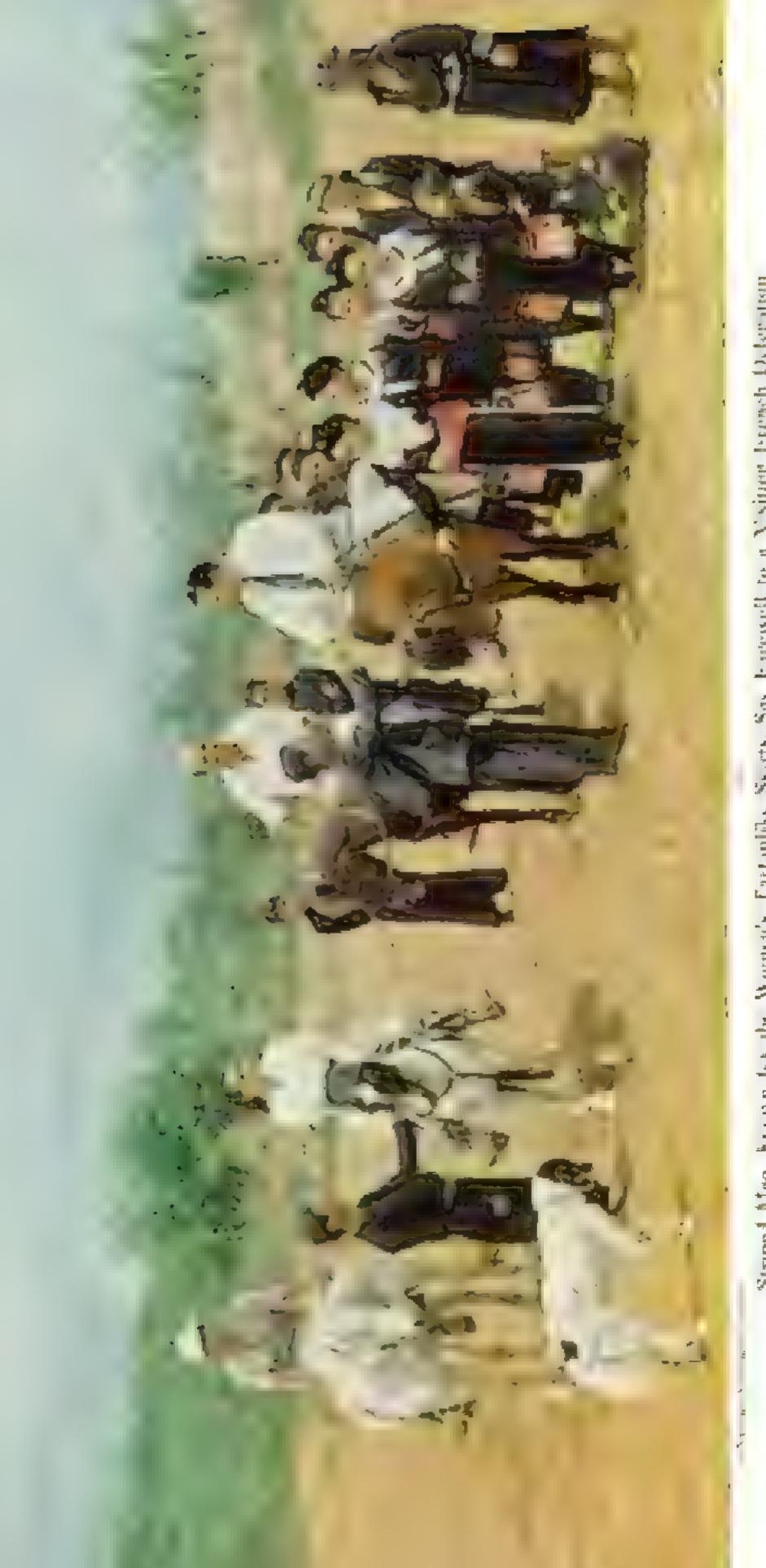


Charges Subtraces Spices I don't Mats and Berring Patterns on the Beach in Aportunia.

Many of these t Brand me a fune-t from Continuate Character fit Nationallet flux from store fronts. The end of the Character for the Characte



Pishermen's Bouts Dut the Harbort Their Homes Stand on Stilts phove the Tide



Martial Correspondence de La Value de Martia de Martia de Martia de Martia de Martia de La Value de Martia Striped Aleo, known by the Wo



## Mack Thal I vest to Her Never

the control of the co

Kal The man the The Kal Tan

## a Beergard of Flowers, is a land in Differ.

The control of the co





A Man's Nacklace is Her Treasury. It May Weigh as Majelia is 1 Femilia.

The May also be the first to the first the first term of the first term.

The Mark the part of the second of the secon

E

castle. High-stern junks with urange sulv

lend the farmastic scene perspective.

from Hon Gay we drove to a luge openpit authracite mine. Atop a mountain of coal a monstrous Diesel-clutric shovel track 10-ton hites of overbarden to microver a new seam. We stood on the brank of a black pit that seemed large enough to hold the U.S. Capitet. Of the giant steps of its terraced sides another shovels secoped coal and tifled strings of cars.

Half the output of this unusual mine stays in Indochina or is shipped to France; the remainder is sold in Japan, in Singapore,

Hong Kong, and other Asian posts,

Because of wantime labor shortage, production is only half the figure of a dozen years ago. By using machines like the electric shovel, which does the work of dozens of laborers, ofinials hope to solve the problem.

### Island of Peace

Back in Honol, we flew over misted toude I mountains to Mieng Khouring in the green tolling highlands of Laos. There we stayed with M. Mathivet, the French representative.

"You're in an island of peace" he told us. "There's no trouble here. My family and I have just returned from a 5-day horselack talp, alone and unarmed, all over the province. It's beautiful, this land, and one of the richest cattle regions in Scatheast Asia.

"You'll see more Mee here than Lactions," be added. "These are about 35 000 around

Xieng Khasang,"

We saw them, and people of half a dezen other tribes, in calorful costume in the town market. Later, with a Meo thief and the Mathivets, we note steep trails to a near ty value.

Men in clack pajamalike dress skarbaps, and braids came to meet us, men libel cur horses, and let them roll in the act. Adjustmening to the beadman's bulge, we drank ten and ate populars choiced over an indoor campfire.

Outside, we started taking pictures. Women giggled when asked to pose. Men vied with them for attention, bringing out finished ritles, daggers, and pursical instruments.

## Necklaces Are Book Accounts

Med wanter here twist their bart in a high enot. They wear black blodses, pounds of silver, multipleated skirts resembling kills that give their wearers the name Straped Med, and black wrop-around leggings (pages 314, 320, 324, 326).

Silver trags dangle from our labes; numerous silver ne klasses, which may total more than 10 pounds in weight, adorn the ne.k. These are the Men woman's bank account.

lit a cottage overlooking Nieng Khouang 1

met missumary Linwood Barney and has family, it on New Hampshire.

While we minused homemade nonghinutand a pied cool drigks, he told me about his

work among the Meo.

"Sometime ago" he said, "a medicine woman in a near-by village fold her people that a man would come and teach them of the true God. One of our students from Liang Prabang happened to wish the place a few montas later. Now there are 3,000 Christian Meo around Nieng Khonang.

"My job is to learn the language, reduce it to written form, and translate the Bible into Mes. Not an easy Job. Their speech has seven tonal briefs; a word may have seven meanings, depending on the pitch and inflec-

biog."

Lass is a land for long-enters. Rich and on twie it exacts Little hard to L. Life is simple, unhunried; siestes are long. What isn't done today may be done tomorrow. Lastians' favorite saying is flow pinions, 'never mind." Octidentals find it easy to become two, as the French tall it, to adopt this easygoing attitude.

In soltry, sleepy Vientume, on the Mekone River, the Laction of flock was even more apparent. It was typified by the pedicab boy I saw dozing in his vehicle near the market. Needing transportation, I midged him. Slowly be opened his eyes, leoked at me, shook his head, and closed them again. I should

have realized it was sierts time.

## Ferr Crimes in Laws

A young judge told us his troubles.

I have so little work," he sighest. "The prison here, for a lates, has room for 800 prisoners. It is what is. Toat's good, but laverage less than one case a week. Friendly, naturally courteous, easygoing Luctians very tarely get into trouble."

A town of 20,000, Vientiane is the capital of Laos. Its center, except for the many waste a few at the many Visiting a near-ty sameth, we found that it backed like a Hellywood set for a punicular

for hall in

Thatched cottages stood in rows on stills in a grove of palms and bananas. Bearath their man are an experient in a which Laos is noted. Old men repaired ish traps; a young swain strumqual a soft-bared instrument. One householder made a big-wheeled oxcart while his wife polished in hammarks.

One evening feelbig gas, we attended a masical cornely in a barulike building of

waven audting and bamboo.



French Others Meet the Michit, a Social Occasion in Lai Chan-

Frequency of the second section of the section of t

## "Ysid me." Is Tang blo

trandod pplanty of a trassaction of the state of the stat

Another eventure in the second of the Lemme Mean and the second of the s

to read the state of the state of the first

The second of th

(i) how they are posted for the first of the property of the first of

Marine of the first address of the property of

## Down East Cruise

Namad Sails Along Maine's Rocky, Tree-clad Coast, Home of Yankee Lobstermen, Salty Fishermen, and Blue-water Sailors

BY COMDR. TOM HORGAN, USNR

With Illustrations by Luis Marden, National Geographic Staff

I lianson, once growled that "No man will be a sallor who (can) get himself into a jail, for being in a ship is being to a jail, with the chance of being drowned. . . . A man in a jail has more room, better food,

and commonly better company."

To me, however, a cruise Down East from Buston on my 40-foot ketch Nomad, with five genial companions for a crew, seemed more like getting out of fail than into it. Freed from the constrictions of hie ashore, we could look forward to a relaxed and tras mably carelines waters ever charted—the 3 478 miles of Maine's deeply indented tide line, from withlery to Quaddy (nump, page 352).

Nor had we anything to worry about on the score of food. Nomad's crew included Col. William H. Spridel, on leave from the Army, and Robert G. Allen, cotton recchant, to have take of many proxims makes a Vomad and skilled hands with a skillet. They pursued a rivalry in the galley which ensated

a scagging raising second to none.

As for shipmates, it would have been hard for Ftr. Johnsen hardenself to have found livelier and more engaging company than Lone Marden, of the National Geographic staff, who came along to record the cruise with his camera, and Charles Rem and Frank Kellagg. GI students of Massachusetts Institute of Technology, who proved that a course in encouring helps make a good sail than.

We set sail, then, from Bosson with a leisurely wind and the best of spirits (page 335). Chopwester was our first port of call, and it a truer sense our real point of departure; the old fishing town had been the ensternment anchorage on Normal's croise the previous

year \*

## Canal Makes Island of Cape Ann

In Gloricester we tied up alongside Capt. Ben Pine's 72-foot schooner Blur Water. Capta a Ben, last Glowesterman to contest the International Fishermen's Races, releised as to await a lavorable tide next day in the Application Canal.

The canal, joining the waters of Massachusetts and Ipswith Bays, makes most of Cape Inn an island (page 330). As we threaded its well-marked chapped into the river, we

passed beneath a new highway bridge under construction. Gaunt steel arms reached out from opposite but ks. Runting on the auxiliary engine, we passed under a gap high above Nomen's mainmast.

Leaving the canal, we crossed Ipswich Bay, where sportsmen book giant tuna; a 927-pound bluefic caught here in 1940 held the world's record for 10 years. Though we saw many beats with lines out, none, apparently,

bud found fish.

Visibility was so the we at first mistook Mount Agamenticus, inland in Maine, for one of the Isles of Shoals. But soon we picked up the light on White Island, and went in to anchor in Gosport Harbor. There the sengalls were so tame they perched at mealtime on Nomad's missen boom and in the direby, patiently waiting for scraps.

We weren't at all sare whether we had anchored in Maine or in New Hampshire water, for the State har, confirmed in 1740, passes right through the harbor. On the Maine side lies the island of Smuttynose, made

luraous by a crime.

## Tide Aided Manderer's Escape

In The Morder of Smultynose, and Other Marders, Edmand Pearson teals how Louis Wagner, on a batter wintry night in 1873, came out to the Island in a dory, killed two women whose menfolk were away fishing, and rowed rack to Portsmouth with his victims' small savings. Wagner threat his was as a state the racing tides of the Piscataqua River, but the executioner finally everhauled him.

The Isles, rocky and union ting, have a long and varied history. In 1614 Capt. John Smith

, harted the group as "Smith's Isles."

Myles Standish Journeyed "to the restward" in 1633 to obtain provisions for the Phytinis at Phythouth and may have visited the Isles. In 1636 Thomas Maybew came up from Martha's Vineyard for a similar reason. At one time, there was a 270 foot ropewalk of Smullynose

In 1650 the islanders were peritiming for repeal of a law harring women as residents. On another occasion, building was sent to persuate the resultants to rehave better.

\* See "Wind attending Arms. No. England," In Torn Horean Naukaus Gerein. It Managing Ass East, 1960



Explorer MacMillan and Wite Vis. Lee Vista in Classine. Maine Their Special House Copy of the Annual Following State Property of the Copy of the Copy

Million, in all line, risely to Smith the result of the second of the se

The transfer of the material tracting in the material strains on the material tracting in the material strains and the material strains and the material strains of the materi

Conditions of a state of the state of the line of the

a ready the many like teasure.

the second by North Plantent in the second by North Paris Paris Property in the second second

## John Parl Jones's Runger Built Here

At Britary in the New Harpin Land, plice of the property of th



Named Passes Portland Head Light, Which Was Built by Order of George Weshington

the contract of the property of the later of the contract of t

A de your ester of lane of the same of the

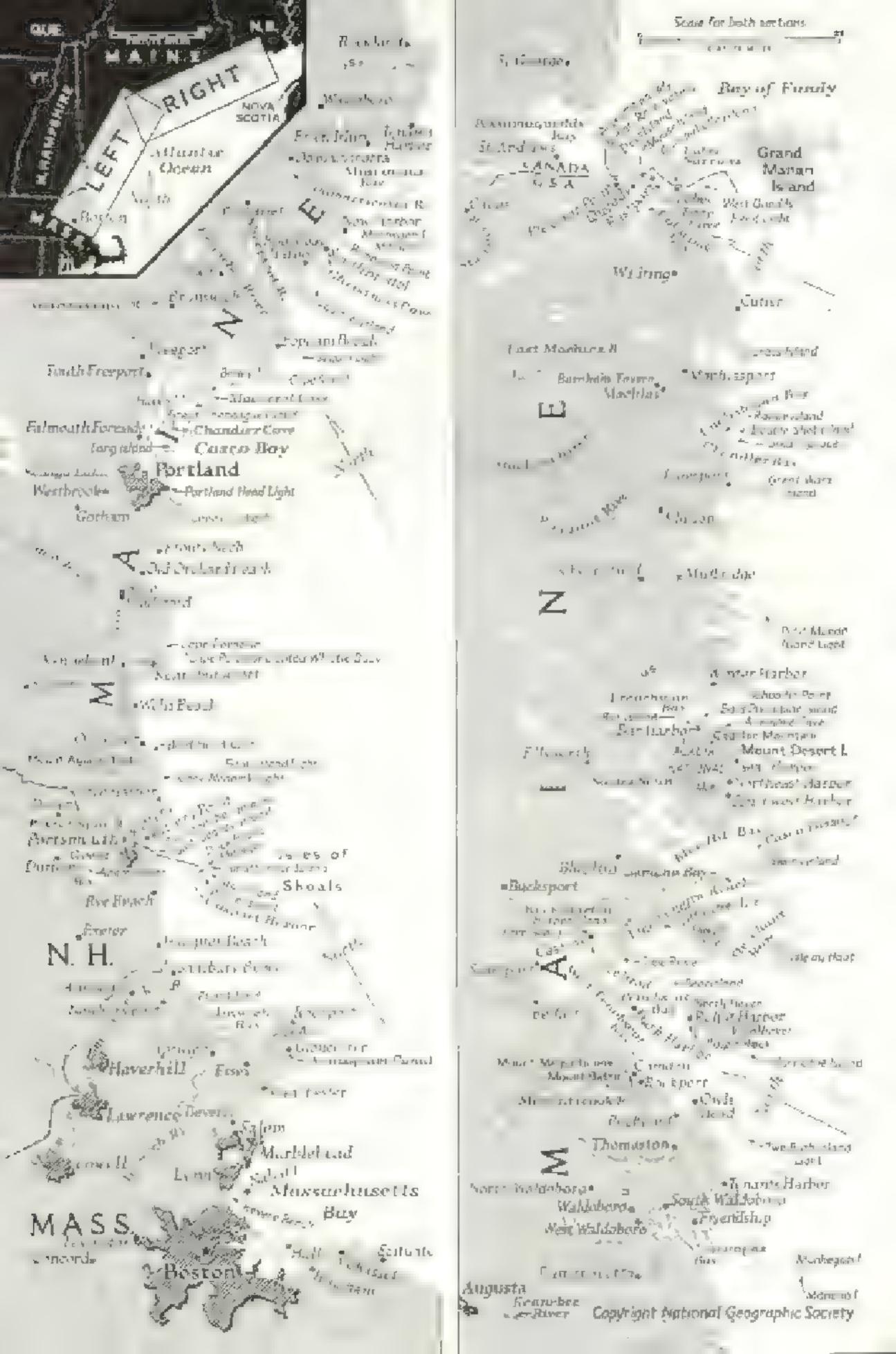
the control of the control of the state of t

Structure of the first total and the control of the second structure of the se

STRUCTURE

A present of the state of the section of the sectio

the same that when we proved at the transfer which are somether which there we proved at the transfer which the transfer to the transfer transfer the transfer transf



Cape Furpoise affords a song haven, its chief buzard being a fantastic number of libster-pot buoys which can foul a propeller, even with a vessel under sail. We did but tarry but proceeded to Cape Elizabeth god Portland, that fine harbor which the explorer Champlain seems to have overlooked.

The white shaft of Portland Head Light reminded me of previous visits, many years ogo, in an old square-rigger, the forremasted Swedish tank Abraham Rydherg, now the Fac do Linuro of Lisbon, and much later in the U.S. submarine Sea Robin. The poet Longfellow, when a Portland resident, composed many of his verses perched beside the light-house as the seas crashed on Maine's rocky coast (page 331)."

Nomad had developed an annoying leak in the shaft logs so we had her haded out at the Handy Boat Service, next door to the Fortand Yarht Clab on Falmon h Foreside's wooded shore (page 369). It was there we locan getting so well acquainted with Maine Inheters that Mardon tempeked toward the end of the cruise that it was the first time be ever beer enough lobsters.

In a small bridling on the boat-yard pier the wives of the yard operators served, at very moderate prices, lobsters fresh from the sca and excellent homemade doughnuts. The fare was augmented by tinker mackerel caught off the float by Linis on a trout fly rod.

Visiting yearlis sometimes are considered sitting ducks by boat yards, so we called for our bill with some oxisgivings. It came to itly 56 for labor and 20 cents for material, an agreeable example of the fair and friendly treatment we enjoyed everywhere flown East.

## An Island a Day

With Yound shipshape once more, we put out boldly across island-strewn Casco Hay, which is reputed to have one island for every day of the year. Passages between them, we found, were often so murrow that the shores were only a fly cast away, but they are so well marked that there would have been little excuse for going aground.

Sailing close to attractive Haskell Island, we gave it more than casual attention because of a shuddery obspiter in its past. Late is the last tentury a lobster fisherman named Humpurey lived there. The island was over-

## A Deeply Indented Shore Makes Maine Waters Ideal for Yachting

The Imaginary crow that fire lat straight fines so convenient to distance measures would cover 12st to be to reach Quaddy from Kettery. If a sailor followed all the rical shore line, he would log 3.4°s mass; and, if the knows were taken out, that unleave would stratch from Canada through the Panama Canada to Guayaquid. Ecuator.

run by rats, but the elderly man got mone well enough with the reclents, even though they continually raided his bout barrely.

One day, however, a passing fisherman noticed the absence of smake (non Humphrey's chimney and landed to investigate. He forest the chack swarming with rats; but little remained of their best.

## Care Battle Rute on Huskelf Island

A first attempt to exterminate the rats failed Later, two young fishermen. Bruce and Wallace Malls, established themselves on the island, taking along about a dozen busky cats. A war seldom equaled in fury ensued. The cats suffered some initial reverses, but eventually tria uphed. Not a rot remained an Haskelt,

The cats, however, multiplied at a great rate and increased in size and ferocity. Although the Mills brothers strove to satisfy the wranglets with fish, birds vanished from the island, their songs succeeded by nuclearnal feline youling.

becomes, and the Millses were told they were squatters and must leave. Their refusal was supported by their nerce pets until someone put poison ashore at night and wiped out the ratice cat population. Hearthn ken, the brothers left and were never beard from again

It was breezing up as we arrived at Bailey Island, and we were glad to slip into Markere! Cove, the island's harbor. There a hig man on the steamboat wharf hivited us to the apto the lee of that structure. We appreciated our sough berth even more when the wind poped up to a shrill whistle and several and chored craft began to dtag.

Our friend proved to be Phil Johnson, brother of throy who was named by the State its typical lobstering man. Romert P. Tristram Criffin, enthusiastic historian of Malue, in his l'ankee Coast, has this to say of the lobstering man:

From being so much in the weather, the lobstering man gets a face like bronze. He gets to standing bronze-like in his body, too. He never puts on fat, he moves about so much. Leaning against the wind, he grows lean himself. He is out right down to essential muscle and bone. . . . He would look fine in bronze

"And he does. One of the best of his kind has got into a statue. He is Elroy Johnson.
... and he went to the List World's Fall the one in New York, in bronze. ... Elroy is about the best lobsterman along the whole coast. . . . He looks a lot like Will Rogers—easy to look at and very American. He talks

\* See "Maine, the Chaptest State," Ly Ge age the Smith, National Constants Malazine, May, 1915

the way Will Rogets used to, too. Maine coast men are very easy on their words, softer-spoken than Southerners. They are good tren to put the haby to sleep when they talk, they are so gentle and deep in their spraking

"So now the world knows how a lobstering man looks. A bronze, lean man. The world-

aught to be proud to know him." .

We were delayed in meeting Elroy. His on and another youth, he me from school, had gone tung fishing in an outboard-motored skiff. Darkness, accompanied by sheets of wind-driven tain, was coming on, so flator went out in his own bout to look for them. He found that another I beter boat had piece i up the pair, their skiff, and their catch, a 200-pound tuna—not unusually large, as turn go but more than enough when fastened to an open skiff.

Elroy told us be would chop up the skill to prevent his sen from taking such chances, but we knew he wouldn't do it. He was two

[ Liui

While he yarned. Mrs. Johnson cooked lobsters for us in the restrictant she operates on the wharf. The lobsters embarrassed us a little, for we had purchased them at sea from a fisherman we met hadling his traps while sailing over to bailey (page 342). We did not fancy croking them alward Nomad, tightly battened down against the rain, and now we wished we had waited for some of Etroy's catch. But neither she nor birray saw anything amos—still another example of Hown East hospitality.

## Sea Gull Finds Friend Despite Fog.

Elroy told many stories, but the one we liked best concurred his pet sea gull. The gull visits him simly when he is out handing his traps. Elroy recognizes him by a reflect feather topknot. A few days earlier, in the densest fog, the gull alighted up his boat.

"I hadn't any bart scraps left for hom," Elroy said "but I figured that, if the old fellow could find the in that pea scrip, I couldn't let him down, so I gave him half of my saud-

w/s h,"

A fine sailing breeze carried us away from Bailey, part the mouth of the Kennebec, and Seguin, one of the best-known lights on the coast, and those to Pophem Beach. There, in 1007, was lautched the best American-light versel to cross the Atlantic. She was the little soop l'irginia, constructed under desertion of Capt. George Popham, klusman of England's Lord Chief Justice.

Entering Boothbay Harisor, we were kept company by a heautiful Friendship sloop, the Susannah, with a gay party absend. One of the survivors of a grand but last-vanishing type perfected by Wilbur Morse, the Susannah

is distinguished by stordy construction and the graceful curve of a clipper bow (page 3-0).

It was lacky, we decided, that Susannah was so solidly built; closer investigation revenled she was fitted with a bolted-in square plano, making her probably the only craft of less

than 40 feet so equalpoid.

At Boothbay Harbor, we discovered, laboratories of the State and of the U.S. Fish and Wildlife Service are investigating the supply and conservating of important resources of the sea, notably the North Atlantic salmon, herring, and the clam.

We saw many curious speciment, but nonmore curious than one small bind and lubster. One balf was normal in color; the other.

a robin's-egg blue (page 342).

The technicions introduced us also to steamed pertwinkles, which tasted rather like turkey. Nothing that comes out of Maine waters, they assured us, is inedible.

## Birthplace of a Famous Sloop

When we left Bot thluy to continue our sail Down East, Nomad's crew approached Friendship in the spirit of pigrims visiting Mecca We found, however, no monument to the genius who made the name of the tidy little fishing vilage at the head of Muscongus Hay known through at the yachting world. No locat of Wilber Morse's design by in the harbor. The craft serviving him are wilely scattered.

Morse was about 21 and without technical training when he built his first briendship sloop to go lobstering in. Itespite steady improvement, he was not content with her nor with several he I unrefied in minual succession. When finally he built one that satisfied him, his sloops were in such denoted by fisherment that he stopped fishing to build about 400 of the sturdiest trait of their size and type ever launched.

Giving numerous islands a respectful bertical of we sailed to Tenants Harbor, a place typical of countless small but excellent havens along Maine's coust. Ald granite quarry dericals stand as stark reminders of the quiet value.

oper industry. Fishing now is its chiri operation, and Hugo Lehtenin, the "Flying Inn," pages an important part in that,

Air Fire veteran I chtenin was makine a comfortance living spatting schools of fish from his Piper Cub and furnishing the intermention to ushermen for a share in their catch.

The country of the country of the catch.

We seeled for Company in a bright down one watched an impressive sight as the rising sung ided the peaks of a distant mountain range. We were hardly five miles out, however, when

\* Funker Court, by Robert P. Tristram Cottin New Y 18, 1967. By permission of The Macmillan Company, publishers.



Hending Down Last Standardholled Normal Makes Knots Behave a Group Received the Secondard Standard Sta



All the reference on a personal of the part of the relation of the relationships of the relationships of the restrictions and personal of the personal of the restrictions of the restriction of the restri minimum, the thereford Buck II is takes Cape And in I hard to be a property of the fact of the property of the property of HILL Bridge Arms Rise as Nound





# A Frem Glace wer Comes the Ground Strains in Fig. Aming the

a typical first of the little Sometiments of the state of the series of th 1

ripe to be a superstant of a residence का हिं के एक जा क

a same but the bold process to Any and a second of the second The second of the second of the second



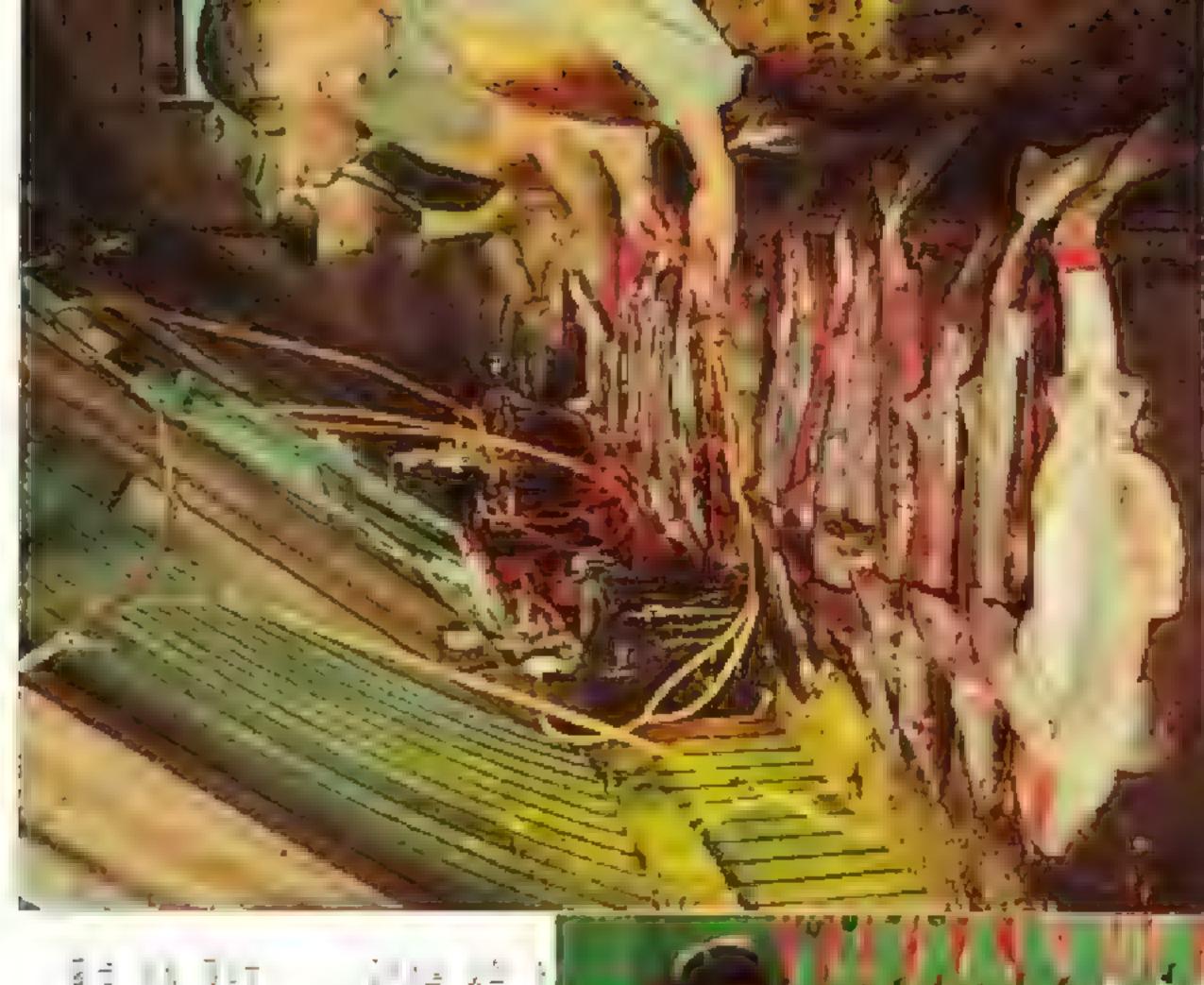
## Open Supported

For a constraint of a constrai

## A Phendles Adds a Lating Continue of the New American

## Venner Whips Pres George Sammon's preface has Harber





Proposed for the Blood Systems France the Connectionary of Bog as in the little in the control of the control o

by we said the description of his many and the said who are a second sec

## w The Last, Tasks Blightiand High Represent Minnesons Net Inspects

Montagents of the contract of the length and the length and the contract of th



## A La sterman Se Is His Wartes of Sea

For 9 No Founds In so 15

Later who is read Across 3

prom 10 To the second to second

 e solid bank of fog polled in and aut off our ver of the discont mountains. We caught a tleeting gimpse of Two B teb Island Light and after that saw only an occasional lobster, not busy. When finally we picked up a seasone, annually-definition I now, we couldn't helieve it was the one we suight, even though our teckined time had the out

The good old lead line, oldest and in some ways the most depended le and to maxigation, gave us the answer we wanted: by the depth we knew that the budy could only be the one outsile Canden. In we went, straight up the harbor by compass

A buil from the wharf startful us before we entitle see the structure. Nomada top hamper bready was visible ashore, and soon our greeter was taking our rank lines.

When the dungeon log litted in the morning, we moved up into the inner harbur as a anch real close to where the Megarita sok River tumbles notally at title coverafter turning the wheels of leavy water milks.

## Camden Hills Echo to Heavenly Music

Above us, the green hills of Caniden (urnished an almost theatrnal backdrup for the town. They inspired while of the earliest years of a Caniden schoolged, Fidea at Vincent Millay, and it was not hard for us to see why.

Champlain charact the region around Canter and near- y Rocaland as "Bedahedec," and Capt. John youth described the town site is "adjoining to the high mountains of Penoberot, against whose feet doth loss the Sun From one of the hills, Mount Hattie, treat of Penoberot Boy can be seen on a clear day tyage 354).

Canden may fall short of Leaven, but it has relested music. A visitor wandering through the streets can hear harp notes coming from numerous dwellings—surjents at work. Canaden, in fact, has been as led the basp nenter of the world. Every senmer largists from many countries come to play and study with Carlos Salgedo, world is nowned harplet (page 355).

One of the most popular and prosperous someter places on the coast. Crimden is also the center of a new and carlons industry, the "growing" of crystals used in bearing aids. The crystal-growing room in Tubbetts Industries, Inc., cushi med against shock, is literally a room suspended within a room.

Here were try-tals of Roche le salt and other salistances mature in a 'mother high or," the molectnes many give themselves in definite put term and symmetry. Grawing almost as a plant grows, the faceted, razor-edged crystals teach six inches in length and four inches in meanth, and weigh two to three pounds.

Such crystals have the property of pleasactericity; that is, they transform pressure into a ectric impulses. They slices, the thickness of four human haves, go into the ministure hearing-aid microphones. Tillfetts supplies a major portion of the world market.

White we lay at anchor, a visitor towed out to us. He introduced himself as Carl I are, of Rockport, and from him we learned much of the sugged, satisfying way of life in Maine. Lane explained be had tired of New York's frenzled page and come to Maine to write.

But imagazine fiction and books, but along several volumes on nattical subjects, but not satisfied a desire to work with his hands; at Lane opened a boot-building yard. Now he and his son build four standardized types of yachts, one sail and the other tares power Fren though he does not advertise, he is burdly able to keep up with the orders.

Lane's experience, we found, was not unique. We beard of the partator of a small wood-working shop who did well coungh supplying milking stools to the quartient intique trade. But since he can med them "to evision stools," orders have poured in faster than he can fil.

In enterprising ex-Navy man ships M, inc's thoice sea food products direct to the homes of many satisfied quatomore. Re-less, every 24 hours on route, they are guarantees to arrive "alive and kicking."

Camilen is the home part, too, of a delightful variation enterprise. Windjammer Cruises. The skipper in charge of these jaunts, Capt, Frirk Swift, has assembled seven old schoolers on which variationers cruise Penales of Barard adjacent waters, stopping ash we for aghtered and adjacent waters, stopping ash we for aghtered in Camile hals.

I are told us we could intercept the fleet at Rockport: so we made said. We arrived as five of the holiday-freighted vessels thus up the small, deep harbor.

It st of Swift's schooners were once in the consting trade, but some, in their painty days, builed fruit from the West Indies. Note is equipped with power other than sail, but a large yawl houts astern, stout powerloads to have yawl houts astern, stout powerloads to hade the old windjammers along in a calm.

### Yankee Ingenuity Put Role in Doughnut

Rockport, apart from its other attractions, can claim to be the brobplace of a unique beneficator of manking. Capit. Hanson Cross ett Gregory, the man who invented the hour in the longhout.

A britise plaque on Gregory's old home records the deed. A core feet to more version of the story, as a boy of to more than a century ago, Gregory untelted his matter cook "frod cakes," some of which had suggy, it digestible centers. Gregory suggested the cut a hole is them. Mrs. Gregory tried it—and the world knows the result.

Capthia teregory was decorated by Queen Isabella for saving the lives of some ship-wrecked Spanish sadors. There is no record of how many lives he has saved by punching holes in fried cakes

At Rockport, too, is the Round Table Laboratory of Experimental Electrobiology, where an understanding of the human nervous system and of extrusinsory perception is sough).

Carl Lane rejoined us at Rockport and readly socepted an invitation to sail with us next morning for the galaxy of islands out in Lembscot Bay, of which Vinashaven Is the center. We were glad to have him aboard, for visibility was pour, and he was as familiar with the cartow island passages as a professional pilot

Sommaing the forhorn in tattered patrices of valuat, we groped our way to beautiful. Theneute Island, not to be found on the thatta under that name. The cordial hospitality shown as by the owners of this naspoded retreat included a producing ment featuring locens of fresh lobsters, boiled in a large iran caldron over logs plazing in a cavernous freplace (page 368).

We are at a plate-glass table whose sup-

spokes neatly separating the guests.

Later we reamed the Island and admired the soug guesthouse converted from a capsized found steamer (opposite page).

### Hurricone Island Bas Gravite Chasts.

Our bosts and some of their young friends guided as to near-by Harricane Island. Once the site of a bustling commutaity, when granite quarrying was a thriving industry, the island is now infanited only by wild sheep and an occasional stray moose that swims over from

neighboring islands

Hatricane's buildings had such substantial stone foundations that it was easy to trace the streets of the vanished town. Within one granite enclosure that had been the Lank's supporting wails stood at rusty safe. When we heard by our singing and went to look, we found the "choot," our host's daughters and their companions, penched on the foundation of the village church

hverywhere were reminders of the island's past, when tesidents engaged in the Herculean task of harvesting granite. From many neighboring islands, also, granite was quarried for public buildings and churches throughout the Nation. Granite pullars from one near-by island stand in the Sanctuary of the Catae-draf of St. John the Livine in New York City.

On Harricane, wowlfood vines wreath of all bulsting markingry, and weeks invaded grates

of rusting steam builters. Unfinished granite columns, currices, copings, and headst-nes by scattered in the encrosching brush and woods

Raspherry bushes, their fruit plump and sweet, grew with over much of the I-land. Unattended apple trees, about and with yet unripe fruit, had escaped insects and other blights common to the mainland.

## Clipper Faster than Some Modern Ships

Returning to the mainland, we called at Rockland, widely known for its Libsters (page 360) and lime, and also for the dipper ship Red Jacket, which in 1844 more a historic crossing from New York to Liverpool

Although dogged by almost constant tam, bail, and snaw, the Red Lacket (named for a famous Indian chief) logged better than 17 knots on her best day, enough to run away from many modern steam and motor ships. There is little likelihood that her dock to-clock time of 15 days, I feour, and 25 minutes ever will be broken under sad

After efficient methods have displaced the pature-sque era of Rockland's lime industry, when own harded the raw lime-stone, and the most nonde-cript fleet of sailing craft ever assemiled brought wood to feed the kiles along

the bar or shore.

Some of the old hulls were as leaky as baskets; only their buoyant wood cargers kept them affoat. Sometimes the windjammers orrived with the time at the wheel knee deep in water. Recause he could not see over a monstrois deck had a man perched on the timber piles would shout course directions.

For more perlicus was the task of carrying away the finished product. For that purpose, vessels tight as a bottle were required. If water reached a cargo of quickline, a violent reaction would produce high temperatures and, almost certainly, a fire which could not be

fought with water,

Usually the vessel was doomed. The only hope was to smother the fire by sending every on he and want. Uharred timbers will found along the coast show such efforts were not too often successful. Even if a liner survived a fire, she usually was extensively danaged by swelling of the quick-tempered cargo, which buckled decas and started fastenings. Steel barges now are used, with far less risk,

In bright moonlight we soled to Monhegan Island, rougally ten units off the mainland Although the wind was moderate, the sea was not, and we were glad, as the ship's clock briskly sounded a ght bells at midnight, to drop the book where Capt John Smith anchored in 1614, between Monhegan and Manana Islands. Even at that, the sea kaked up at wildly that we had to stand one-hour methor watches all night,



Shipwreek Brooks on "Trensure Island" For is beel Skyward as a Snug Testr Roof

Ships to a part of the law of the first test of the form of the first of the form.



Lanch Brother of.

I berry I for I have

the control of the contro

A the first term of the first

I A I AND A THE THE A THE LEWIS IN THE REAL INC. of a Washoot Hoper Part of the Satelline Coat off Pastport, Manne Why in a second was a second of the second o I've tood Dury Preduce the I'bect



Arms Strain under 100 Pounds; Ankles Sink in Ush

The terminal content of the first of the fir

tipe a bill assessed blidden markete period places and because the period markete and because the period of the period Paul markete period Williams

Now, in some net, point et aud other visitors exceed the fishing village year and equil-

## Maine Indiana Were Poor Sadors

Two factors is to contributed to the long and property to be a citim of Markinga like a small tive to be against surround it

s or centrelist.

Libraries, at Books

Class Calds

Un island's tuble om re desolate, es 11 - obj - 3 at 24 11 1 1 1 1 2 2 1 5 -1 + 1-1 181, | + 3 - 1 1 + p tell (Std. 1) Hiller the M. I such fra, the could have surtire the augh crossing from the anintand The Martin 121- Mary 12 11 ( 2 m) Tilota, Pil Blat. event: ond afracve they stole a sailing versel, they forced captured white men to handle the craft

Returnit 2 to Booth-I style we and I tall I the In a tire, or "saudile With respect to progress The for essit get the Smith is sail. ' h. y named it was ran charged there and but mas Day, 1614 h was Smith who sail he would rather live in Maine than anywhere ries, and thus if a r i a c cachin t support pre: here, it deserved 10 1908 ( 186 11.14 140 lead Hall for the weather to be supposed 1 11311

A Carcha which are to restward to the control of th

pany Unideal the Writer Loring Period were topen Harrison II Helber on home from Son the No. John Trueman Lorison outside I, and Robert R Sewell of Montrell, combine the drawn world Was

And the police of the pairs we first are The constructed fix distance of a structure of the department, in addition a terragard structure of Navy, or fold to the respect t

The table 11. The marrow entrance

to the Cirk haven is upon and to the ball to the ball to the ball to mestersable to seen, Pulpot Rock

that the old of ти вений вем и а flat hawk. As we Datases of the 5 2 sints war of down with a fish for a scange through the rest scenard if the more that a least track of 151 11 15 care as there is it 1 1/2 4 - I निक्त सम्बद्धाः हि । इ be one become and THE PARTY THE TARREST 0 799

I no commercial importance. Fulput Harlor is little known except to cruising fold. We found several planue craft office in the publy of the terrefringed variously hardlocked and in more

With no lights to line is assure at bonds of the sty, and we were all with the rule 2 and man a fine sail to Southwest Harour or towering Mount Desert I that about 30 miles at a

I reclined to the terminate that the Row took its close to Isle as Hard, as named by the explorer and cartagrapher Champlain back in out. The near-to-

Camden Halls and Moant Desert, wit a sight of each other on a clear day, are among he highest promontaines at the Atlantic coast of the United States.

is an Haut once was an important cog in the West Indies trade, when the island's vessels took out saft fish and returned with run and manyses. Now summer visitors form the chief industry.

We crossed Jericho Bay, threaded narrow, winding Casco Passage, and entered Blue Hall Bay. It was then only a short run to the placed waters of Sauthwest Harbor

No at marriag we received a visat from Research. Samue White Morison (Ret.), the Har-



Sungged by Boat Hook, a Specter Rises from the Sea

Kelp, a seasoned, yield it is seed avestone in its fail it is a respective for the prace loose off the collection of the prace loose off the collection is solution or prace to peak the prace loose of the collection of the collection.

card professor who is writing the history of the Navy in World War II. The sections consessor was crusting in his little cawl I now the shall, a family name of many point to re-Having long known the Maine coast as his own trout yard, he speedly marked on our cherte places we should vest mad, more important others we should vest mad, more important

Miter more than 50 miles over the open some rached one of the places Admiral Morison to miner december, the julie town of Machins, on the Machins River. This was one of the later of the Maine streams used for long to the driver, a far more spectacular to the later of the later than the later of pulps of With it

rough and roaring water, the Machies still demonstrates why the Indians called it "Rad Little Falls."

Navy records relate that soon after the Battle of Lesington, in Aut.J. 1775, Machiay raised a liberty pole, symbol of freedom. The commander of the Buttish sloop of war Margarette ordered it out dawn, ander threat of destroying the town. But, says the Navy:

## Revolution's Siret Navel Battle

"A lumber sloop left Machine and luzily drifted toward the sea as it about to pass actr the warship. The sloop, apparently badly handled fouled the warship, and instantly san es of Yankaes boarded the foreign craft ormed with pitchlorks, axes, and muskets. A battle followed, in which the Americans were victorious after losing six men and killing ten of the enemy, including Licutenant Moore [the

commandet).

"This was the first naval one atement of the Revolution. The lumber sleep was in commaint of Jeremiah G Brien, and four pressing five of his brothers were in the crew. Joseph O'Brien, the youngest brother, was only to years old, and his request to form one of the party was refused. He smaggled bimself almard the cruft and during the fight proped to be very much a man. Lieutenaut bloore s. sword was given to Joseph O'Brien, the baby the grew "

Since then, faur Navy vessels have successsively being the name of this early American naval hero. We sailed, we behave, right over the spot where the battle was finight

We anchored Nomed off a big sardine factory at Machia-port—the town of Machine is -evertl miles farther up the shallowing stream and began to get acquainted with one of Maine's most in partent industries. More than forty such factories give seasonal employment at good wages to thousands of Maine women. Men also are employed, but fewer of them, for it takes the nimitle forgers of women to arrange the small fish in their tin containers

Employment in a sardine factory is much like membership in a volunteer fite departme it. When a cargo of fish arrives, it must be parked without neby, and employees are stronger ad at any hour of the day or night.

The same negency drives the skippers of <arrifler carriers, the vessels caployed to bring fish from traps to factories. No be out only salt is used, and the fish will not keep more than six or seven hours. Once hashed, a sardine carrier most push through, regardless of the weather.

A typical carrier, the Chestee L. Pike, was tied up at the factory wharf sortunately for us. While we were inspecting the old Eurebani Targen where the dring Lictarrant Moore was

taken, and visiting a little tree-grown complety. where Captain O'Brien and members of his family sleep, contrary wind and tior broke out Anound's anchor. Returning, we from I her tied securely alongsine the like.

Cupt. Gay Leighton, skipper of the carrier at the time, explained that Annad, dragging her anchor, had emised back and forth across the river, in danger of going aground, until he

got a line abourd.

Leighton has sailed Maine waters since he was a boy of 14. There was little he clift not know along them or about the sudme industry. A sardine, he explained can be any of several species of small fish; those caught in Maine are small begring (page 343). Sometimes the harring scales being more than the ish themselves, they are used to make pearl essence for the jewelry industry and athers.

Collecting the scales is a surprishagly simple mages, The fish are transferred to Scale costs, where, as they flop about in water, the scales are dislodged and sink through gratings. to the bettom of the small craft. Then the fish are believed from the scale heats into the carriers, the grathings removed, and the scales dipped out

Secret obemical processes remove the white the degree of graning, from the day scales, in to crystals. Suspended in lacquers, the silver pearl resence is used to contglass leads in the making of artificial postls.

## Resond Domain of the Sommer Visitor

From Machias we were bound for the Caon lian border and West Quo Hy Head, eastecureust point of the Ch ted States. It soon berating apparent that we had sailed begin if the though of the summer visitor, the samuer he tel, and the glattering powerlmats. We saw only one pleasure craft alone the wat

A tall lighthouse, which we but it is a fire picking up despite its Christmus candy red and white stripes, marked West Quodity's bradland (page 300). Patches of fog limited visibility all the way; there was little danger of turn or aground, however, for, as the chart showed, the nucleione shore fell off as steeply

as the side of a house

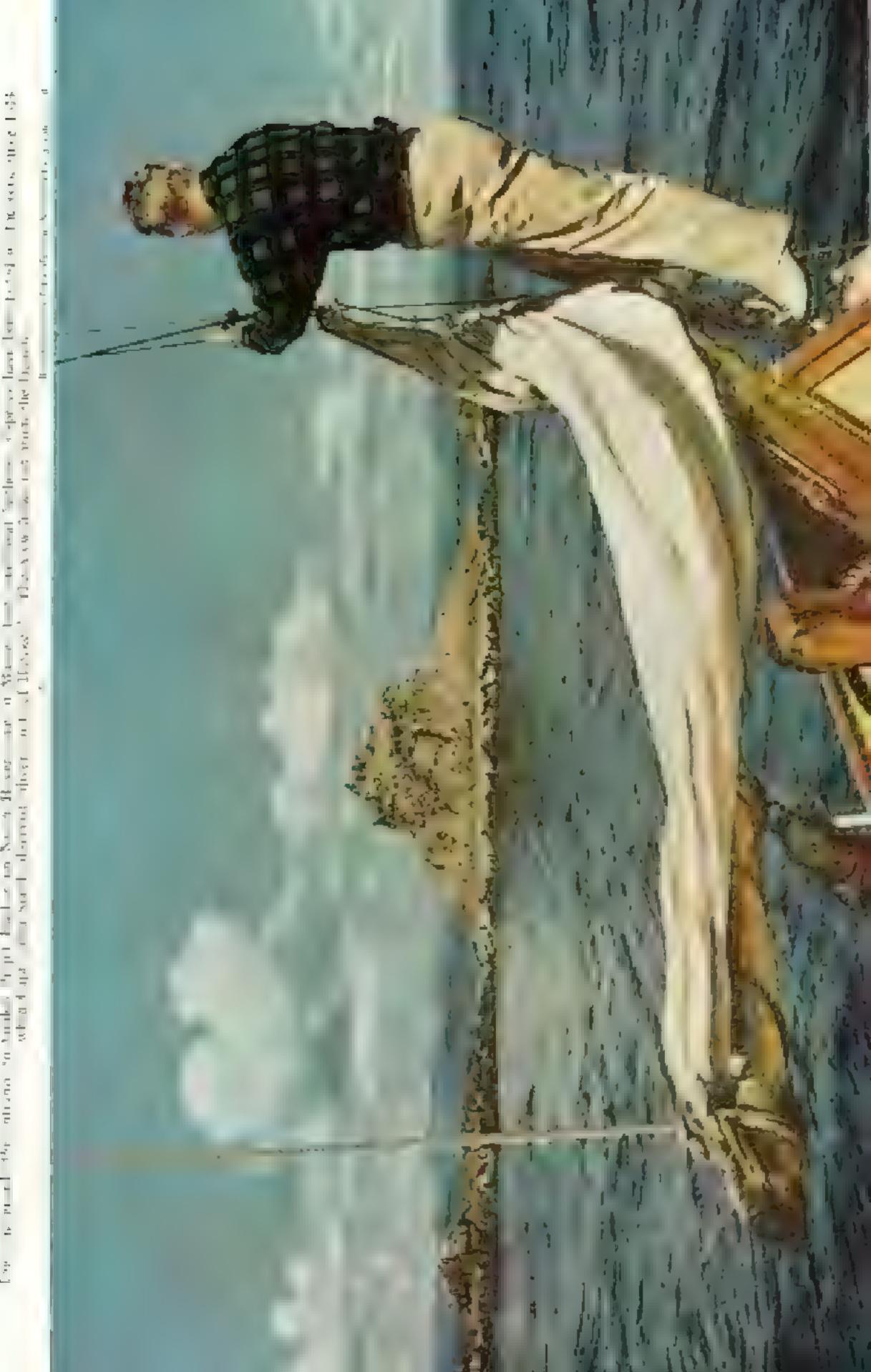
The fog lifted conveniently seen after we felt rue way with the lead line inside West Clauddy Head. We timed our arrival in the rising tide, a necessary precaution since the tides through Luber Narrows run at four to eight knots depending a the season. Contrace cutrents, too, can be lighting. The E. S. Court Pilot conces against attempting to sail against the tile.

Our run up to Ensiport, along the watery international locatilary which follows the midthe of the channel, was pleasant and comforce able. We passed the little town of Lubec close

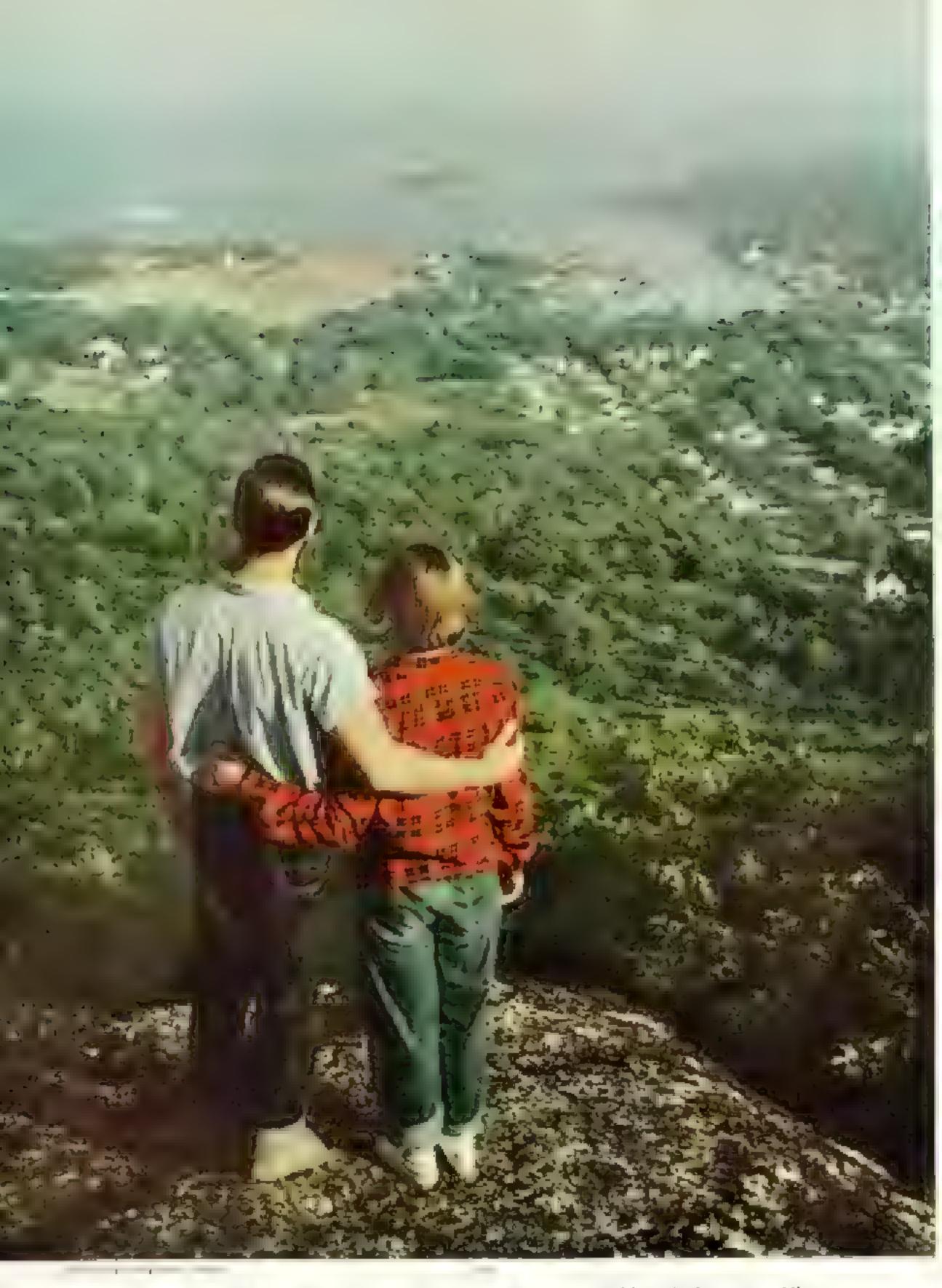




the like well was about the late of his was in the contract with the rest of the contract of the following the state of the contract of the co Cape Neddick Light's but Bell and Rea Chin Warm Scartten from Riceky That Have Star Many Good Slaps to the Both in It lists I my north a the best force of the day to



Depreys as Numeral Leaves Pulpit Rock, a Accing Site for Con mics Looperander the few Looks for Car to principal date la transfer de l'action



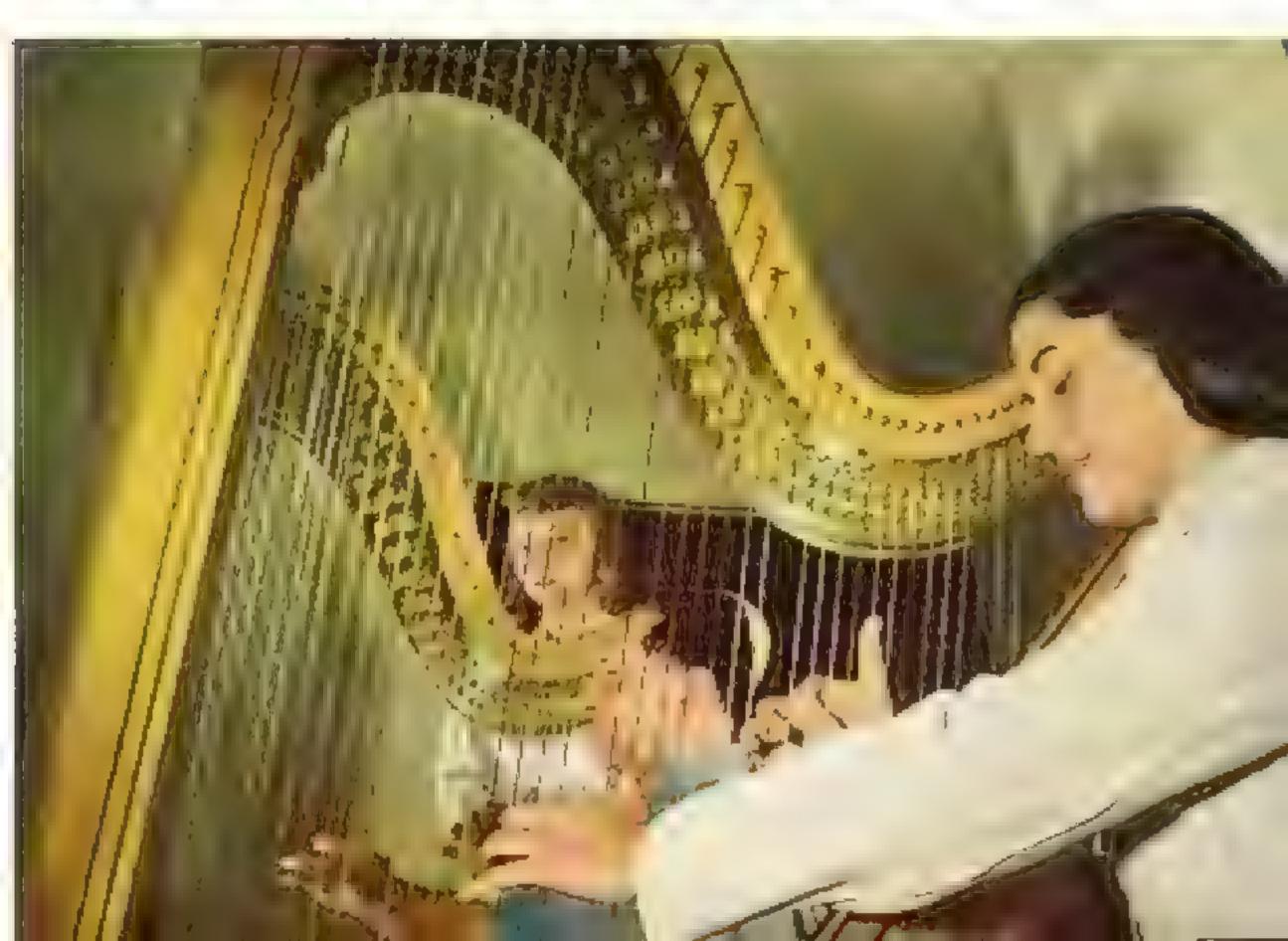
Green Woods and White Yackts Give Garden One of Maine's Lovenest Views

1 \*\* The first test and a figure and the forested into the main declaration and the first sections in the first section and the first sections in the first section of the first section in the first section of the first section in the first section in the first section of the first section in t



## \* "Hast Then, Spirit Partiquid ... the Tempest That I Pade Thee?"

## v In Summer Cales of Music Palmes Among the Country Hills





An I proglessed Diesin, the Scholmer H & B and D Louis Thomas The Mis. of Major Described to a first the William Scholmer Described to the first the Control of Scholmer Described to the Control of the Scholmer Described to the



## Al Hards Cather to Hear the Mate S. a Chanters

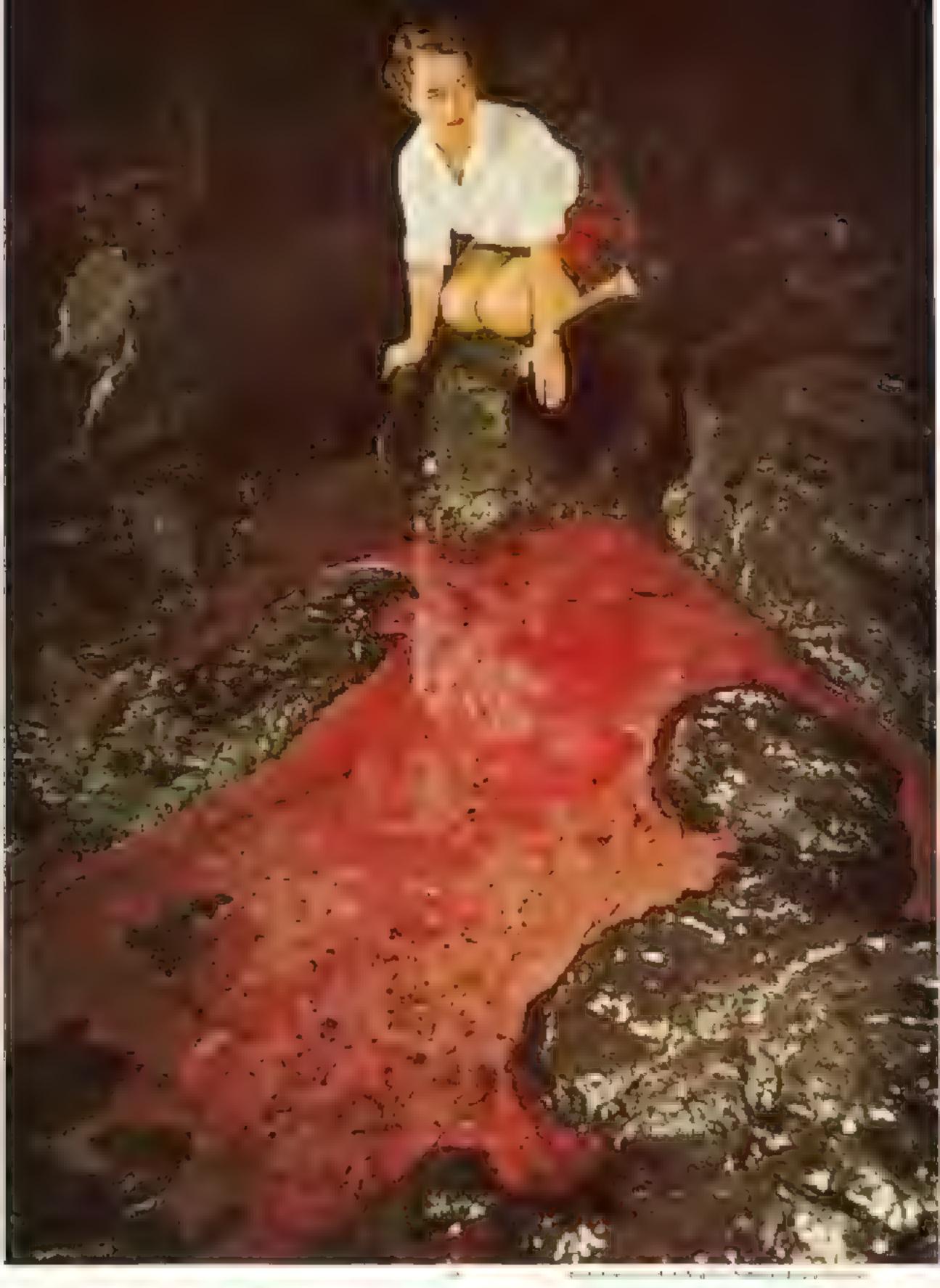
Market some ships her species produced by the state of th

## Some needs Salars Relax in a Song No Mark Land

the second of a product of the second second







Fine Algae Make Sea Wheel Aspear the Core of Wine in Mount Describe Agentine Cive of the rational of the rational form of Anter the rational of the lands in the same of the lands in the same of the lands in the same of the lands in the lan



# A Norther Theolis Northernstein They're Lobsteristics

the part of the species of the second of the

# Y The Picked All the Laboter Meat." Says the Wirner. "Now May I had It?"

1 to prove the state of the sta





Brogs Ger Heida New Chees of Paint as Glampists to Salters

Month administration of the second of the se



# A Blueberry Pickers atop Vinag Desert Island Overlook the Secre of a I west I are

Trescontain Massacres of the set of the set of the fail of the first of the fail of the fa





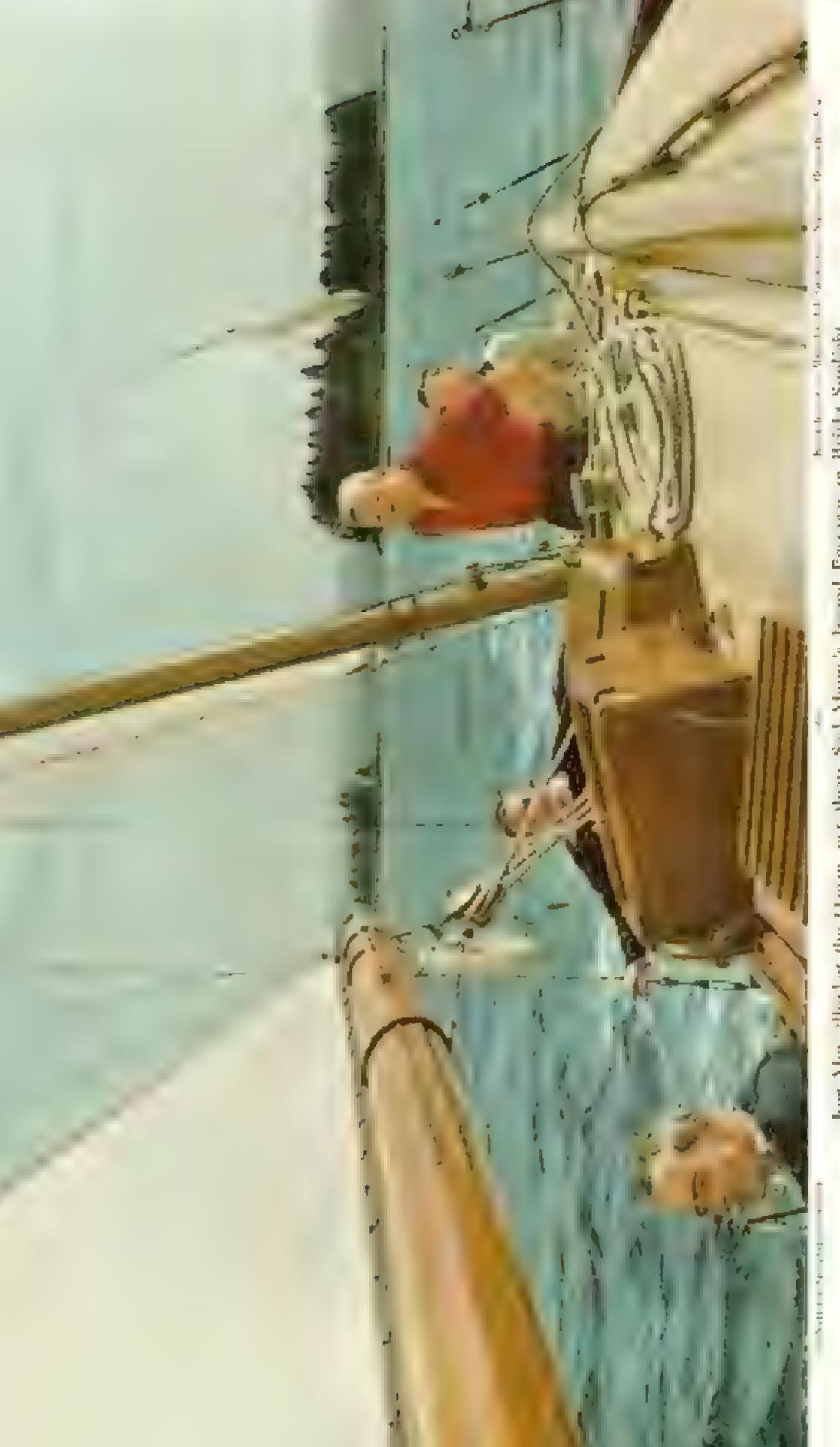
# y Summer Fog Concease the Islands of Frenchman Ray in Tax Prestive View

The part of the particular the particular the man described with the man desc

tothe Moreon on Active Service Service to be the best of place of the Militeria of the online of the following the property of Service a Service to be a real for the Militeria of the following the follow

so det e Name La Salvatara en



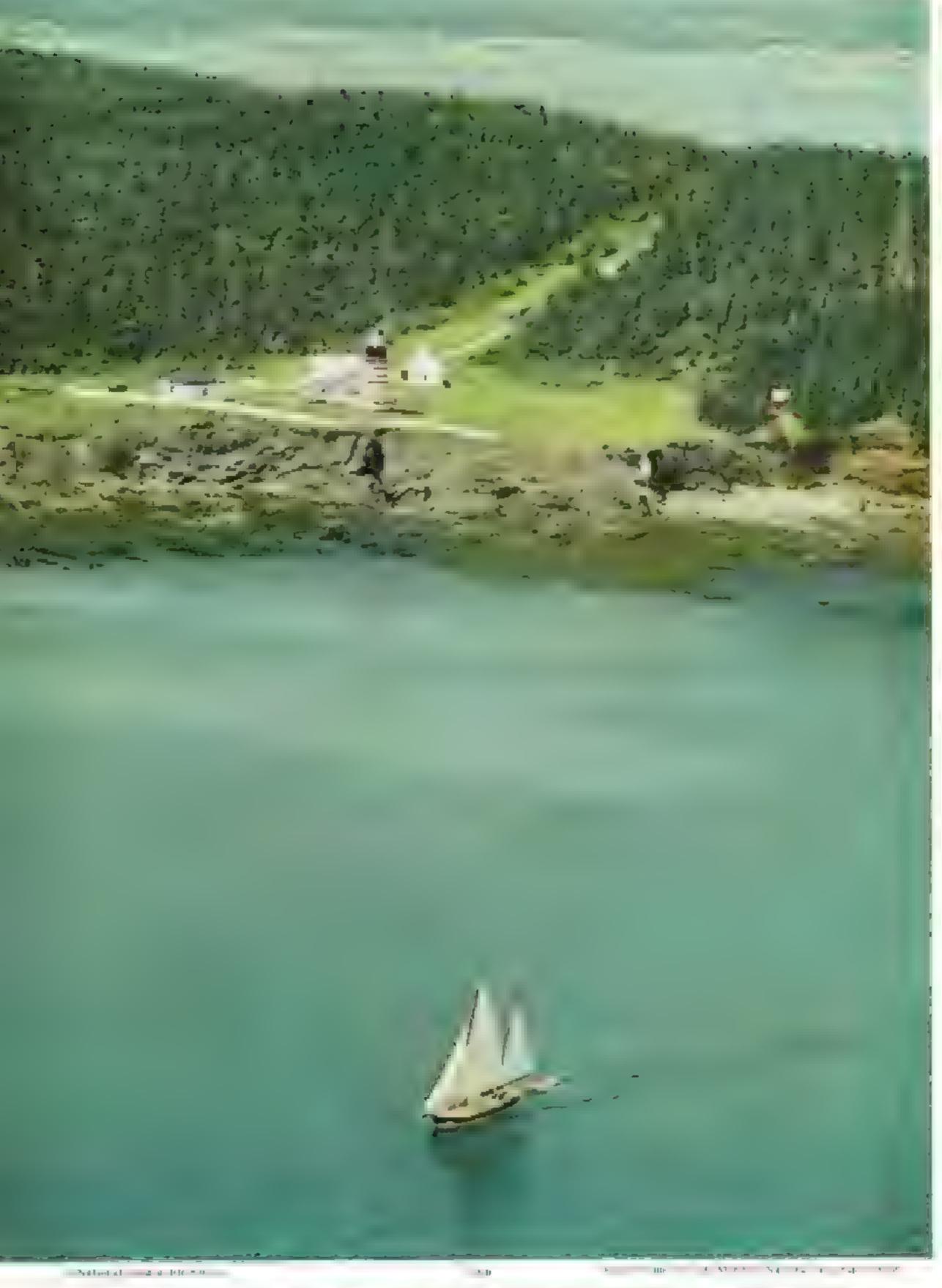


ling May thurber the Geam, yet than Sad Munic's Itamid Possages in Bright Sankahi

Mainer of the formal least more reserved with an interest to the state of the state

the particle of the little of the fields of the rest and and the soft effectively the Last for all a count of their Settlette and th kay Ru Harberton der vertein franchen

Shifts in Maine's Late Summer Manths: Bar Harbar's Municipal Pier Fug and Surshine Make Curck



Annald Tacks past West Quade Head Light on the Nation's Eastern test Part of Land

H. the supper, separated did the days of Proplet we then bead a day of the end of the first of the plant of the first of the end of the first o

to port and, on the Canadian side, Campobetlo Island, long the summer home and sailing headquarters of the late President Franklin D. Roosevelt. Both Luber and Eastport, which is on Morse Island, were lively centers of the smugglers' trade early in the 19th century,

Faking the advice of several fishermen, we put in at there towe, about two miles from bastpart proper. There, at the invitation of her captain, we tred up alongside the sardine carrier Juliet M., moored at a wooden plet,

This was a matter of more than ordinary convenience, for the tides at the time were rising and taking a span of 24 feet. Noonal went up and down comfortably in company with futer M. At low water, little of her top-mats showed above the pier.

Across the pier bay a small steamer under charter to the G wernment and staffed by Geo-b gical Strivey scientists and a group of Army Engineers. They were making a presiminary analysis of the proposal to put to work the great tides of the Bay of Fundy and Passania-quotidy Bay.

#### How Moon World Work for Mun

Two natural jeanages make Quoddy impourably tempting to properients of tidal power. The range of tides in the Passantaquoddy area is extremely high—13 to 25 feet. And there are two baws, or basins, almost completely land a ked, tell cent to each other.

The basic rencept is simple, I lang and locks would keep one basin, the larger Passamaquoddy Bay, at or near high-tide level by theats of set gates opening inward as the tide heats full height and a locing when it storts to recede. The other basin, Cobscook Bay, would be kept at the I w-tide mark by sea gates opening outward on the abbing tole and closing as the tide turns.

Difference in the two water levels would average 19 feet, and power would be generated by turnings in another class between the two pasies. The energy polariting flow of water would yield a continuous, though variable, output of power 24 hours a day.

The most recent report on the project says that such a system for "harnessing the moon" would yield an estimated 1,310,000 000 kilowatt hours of power per year.

Classified Navy sounding equipment was ased by researchers. Their pref. ( a) and a tofficial findings and cate the existence of netter foundations for dams than had been supposed.

Perhaps now there will be new interest in the long-suspended International Passamaquoddy fidal Lower Project. If so, nearly arranged Quoddy village may again be felly occupied. Hudt to house project construction near in the 30%, the longe housing develapment later was used by the National Youth Administration, and page recently, during World War II, by the Scatters.

A village of another sort is located in the Passamaquodily Indian reservation at Pleasant Point, amout five miles from Eastport. Old resolents remember when the Indians came to town padding canoes laden high with baskets. Now they arrive in automobiles. The baskets they bring are used by the sardine industry, which, with its by-product output of pearl essence, constitutes one of Fast ports chief sources of revenue.

No visit to East, out should omit the whirlpool in midstream near the international boundary. It is considered a menace to small craft, and many stories are told of ships and men sucked down and drowned within it

Yet the whirlpool is a prime lawrete with sea gulls. The birds wait for small fish to be impelled their way: then they ride around in its outer swirl like merry-go-tound patrons. Whales, too, after spoot and play around the whirlpool's outer edges.

We filled Nomad's tank, bucket-brigade fushion at Deep Cove. Then we came about, and Namad turned her howsprit southward for the homeward leg of our voyage.

We made the 40-mite run to Roque Island in bright, sunny weather. The wind was light, however, and we arrived at that unspoiled and only after much probing with the lead line.

Next morning we left in a dease fog, but we found the nurrow channel between Great Sprace and Duritle Shot Islands without a ishap

Later we were glad we had not writed for visibility to improve, because, long before the lighthouse on Petit Manan Island drew alteam, we broke through into bright sunlight, driving over a sparkling sea so smartly that Normal out two hours off our estimated time of arrival at Bar Hathor.

#### Foreign Warships Visit Bur Harbor.

At Bar Harbor we met Dr. John B. Ells who jovially bears the imposing title of Chairman of the Warship Committee. The Navy has no establishment on Mount Desert, and Dr. Ells represents the service in receiving visiting warships, including many foreign vessels. During our visit, he was preparing a reception for the Royal Navy cruiser H.M.S. Superb, with a British admiral aboard.

But Harbor long has held an international reputation as a smart summer calony, with many of the Nation's wealthoost families as summer residents. They built multirormed mansions they chose to call cottages, some of which went up in smoke during the devastating facest fire of 1947. That conflagration



A Joseph and Labster Guardy "Treasure Island" Bi oplice

The proof for the first trade process of the first trade of trade of the first trade of trade

to regit a till to the second telling and the formula to the formu

Dangs for the following two to Callbe Visites port of Alaba National Park, a extensive wildlife start of V

About five miles life with manualos mentig down plan fil tously on either to. S pes is the only firm! on the Atlantic coas of the United States. We had been told to beware of williams confusing winds common to such places but we rid not find them: or, better stab ties aid not find us, Lill be state the sould gate tranquilly.

Pausing at Northeast Hartoc, we shaped a mentse for Leur Sell-Reach B lath 12th begariful faland water v v '' miles long [ 0 2 10 ] 2 11 E SEPTE Ste real Harris B. The Deep cales in the mainland lor: and the throng Lit, the S. Simulatorthe least ting the has a such an exact the and need a P 10 [1

Branch Commence I . bighwhy in the viscoung Libbs La Le and the malinland we loope our selves off Back Harbor Garage le liesty y torite Hybricani B 10 8 - 1 2 (5 12) projecte. Han winds. Its popularity was not by the presente of Total Crussing and dire traft, by boler or of in willifelinang cortes field the old status bet

However I have well, was thousers them is a located was more than a dof Penobecot Bas. Such a meaning settlement called Tenturet, Castor was disposed to be france, Holland, hoggins and the Castor with white Ex Indiana as the end of the second to be a more than a most porture pre masser.

Laughter of the great third Maduckawan load to large the great third Maduckawan load to large large several chirocal all of whom matried well

Little tang lile grant is remains of Castine's



A Dack out of Water, Nound Rests Against a Pier, Hee Anchor Never More Useless

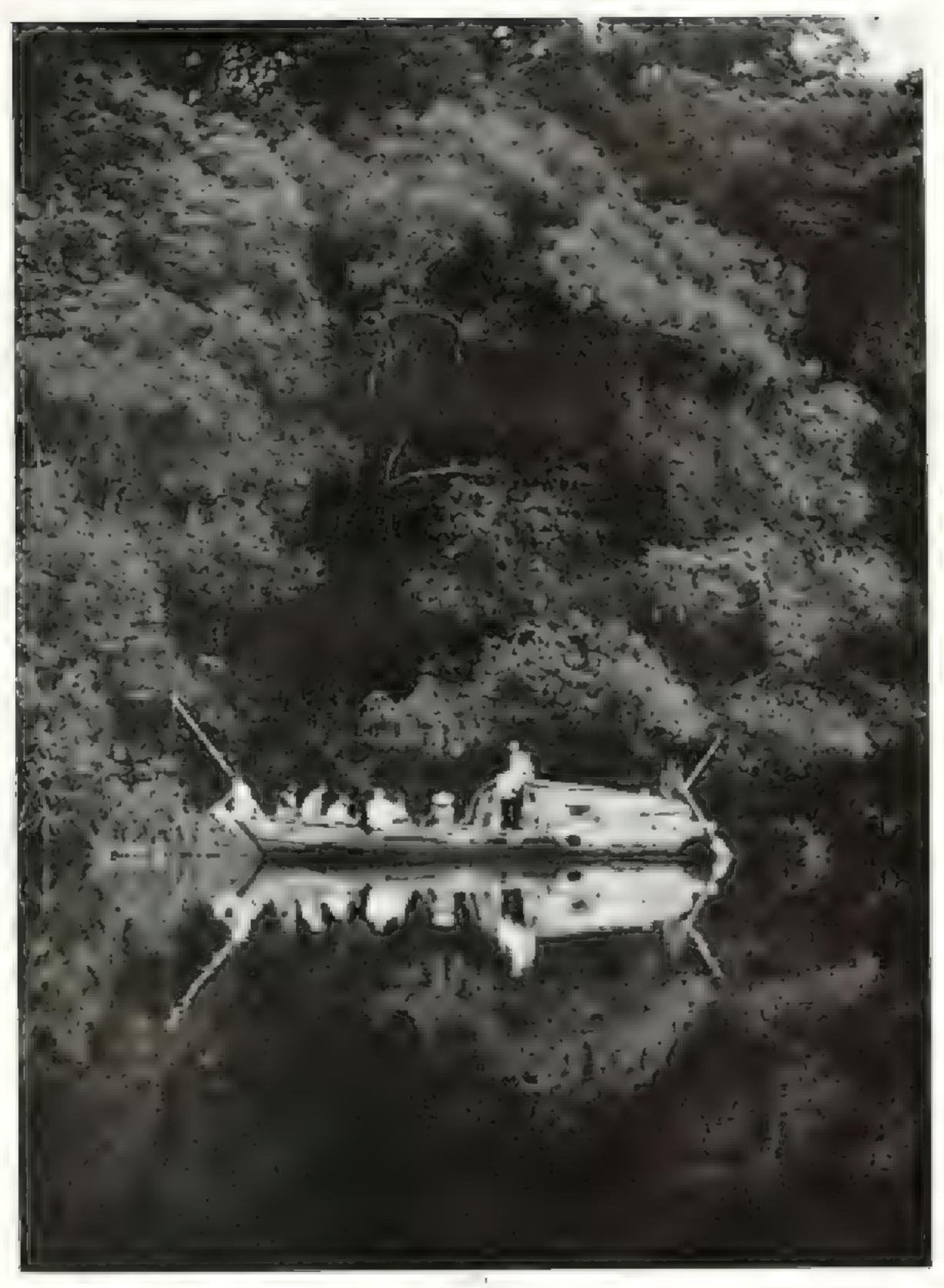
A 1 to make a fill of the property of the prop

Weillia [rest room 1 such that a sumerous pure historia superior Discount to produce a production of the such as the branch to be the following to be the follower of the substantial following the beauty of the substantial following the substantial following

We marked at the Lost part in Log part to the Market part in Log strands and the Market part in Log strands are the modern and the strands are the strands are

the is a server of the term of the property of the server of the server

White the still property of the still proper



Agrest a Towering I very Buckd.up, Chich Henters Pause to Safe if it Write Woman

The control of the co

# Jungle Jaunt on Amazon Headwaters

# Deaning Rivers Letter Lone Where Women to Remoe Centures. Where Primitive Indians Peered at Her in Wonder

# By BERNICE M. GOLTZ

# With Illustrations from Photographs by the Author

ACROSS a map of edatern Colombia and nurthwestern Bruzil, the Vaupės River winds blue a satin-smooth blue ribbon. Actually, it is more like a ribbon that has been palled that, then abruptly released to fall into tortuous twists and lurns.

Far from smooth, the river leaps and rears through a jungle world peopled by appealing but primitive forest Indians to whom even such a simple and immidue mechanism as the

wheel is a nevely.

Working in Bogota for an oil form and platening once again a wilderness vacation, I studied maps of the backited reaches in southcustom Catambia. The Vaupés (Caupés) was my choice for exploration because it flows into Brazil through vast jurgles I had never penetrated.

On each of eight previous jaunts into mountains and jungles of Central and South America, I had manusced to ser an leaperience something new and discovered an Inca futness. Another time I lived among Jivaro headhunters in Ecuador. Once, deserted by my Indian companions, I had to sit for a week, alone in the jungle, awaiting resuse.

#### "Alone," but in Good Company

Except for a crew of Indians, I go done; primitive peoples are a hobby of mine. This time I would select my Indian guide in Mitû, capital of the extensive Commissary of the

Yaupes (map, page 372).

One who is wise in jungle ways realizes long before reaching white water that an Indian is particular about the trade goods he attents at the filter in the filter in the filter in the traveler could provide simply paring knives, combs, parket mirrors, perfume, and salt. What these Indians really crave is small white, blue, or gold heads

These were not to be had when I was preparing for my journey. Luckily I was aware that hishbooks were scarce along the Vaupes,

and I took as many as possible,

A reliber collector posted me on the quality of rotten skirt material to law for ledian women. A three-yard length is considered sufficient payment to a weman bearer for one day's hard toil on the trail.

I also parchased yards of dish toweling with the stripes. So newbern along the Vaupès today, an Indian woman is unwittingly walk

ing around in a dish towel

As an afterthought, I hough, five toy airdanes with wheels and propellers that turned, I exclude these test of its the force in every jungle I have visited where the theory of the wheel is unknown

Secause of a scattly of thashlight batteries. I selected an alternative which contained frightening magic for Indians—a miner's curtade head lamp with a space supply of furt

#### Light Reading for Jurgle Negles.

fwenty-live-pound sacks of rice, red heans, and salt went with one as air , argo. My two duffel bags and horrowed heat box contained only essentials—a Boy Scout mess kit, pots and pans, a snake-like kit, and matches.

I took two small blumets, a miniature piltew, and a mosquito-netting har tucked into a native hammonk. As a pastlue for peaceful nights, I packed 15 mystery privels.

Before leaving, I visited antiable Gen, At fredu de León, then in charge of Colombia's territories. He gave me permission to enter the region and provided an objetal introduction to the Governor of the Commissary.

The flight to Mith was spectacular. While B goth rests on a plateau at 8,600 feet, the mountains around it loom 5 000 feet higher. Where they dropped about the to the east, the grasslands of the flamos (plains) extended at in the smoky base of the dry season. The flamos (patient) were huming the old grass in preparation for the raise.

#### Wilderness Unforts Below

Bey and Villavicencia, the cattle town which is the jumping off place to thousands of square miles of grass." I was the sale passenger. On each seat were bales of emergency rations for the Governor in Mittil. At least eight Government employees were dependent upon the patames, an one, rice, beans, cheese, and freshment being carried to them. Ten pounds of butter occard out of a package.

from the copilat's sent I viewed the trenembous spread of country by central Colombot. Where the grass stopped the jungle took

over in a clusting green mat.

\* See \* Recovered II case for a Bit logist in the second of Sanct Real Patrick II 1 Ballet, No. 1 1998.

Washington, August, 1998.



River of Danger the Vimpes Writness Paraula the Braza Camarday Wildertoess

Actors of several impact expeditions, the author chose for that venture the tenante beartenters of the Amsson. Mass Goots traveled this conflict burdening distinctly by carne and fout. Leaving Mith, the west to the bearbouters of the Querari River, then retrared her steps. Camering count the Varpes, and walked a junice transto the Asan and promeyors down that stream, stopped close to the Isana (Ignes).

We stopped briefly at San Jose del Guardiere, the Guardine River, an energency landing the transfer to san the late skirts stood quietly beside the plane in the steaming near. Then we started on the hour a light over unknown growth to Mith,

Below us clearly as studdent with long low-moderi grass bouses began to appear. Later on, I know them for molecus, an Indian or of for such torest communities. They console of a communal hat large shough for five tamilies—alout 30 Indians. When food far my Indians can low, I would look searchingly for the worn paths leading to the n from the riverbank.

As a fried in across the airstrip of Man, I has a fl, dignified gentleman with a kindly for He was Señor Gulleman Lytin, Comissorio Especial. His wife and daughter were with him awalting the food plane.

With quick, grations Latin hospitalit, they covered up their suprise at my arrival and lavited me to the Governor's house. They thered me far more than I expected—a rot with fresh linear, both to wets and a homomork for sustant. I used it to practice for the joughe nights whead

Buildings becomed the plazar a schoolhouse with a bell which scolded lought, the two-

story home of a mission priest, an impressive storemouse filled with crude-raider sheets, a combissive, and a small (lovernment run dute with an enthusiastic young cost r. Sec cost flown in by the wartime Ruider Development Corporation grazed in the plaza.

#### Prietuosa All Right, Even Mrs Shoes

Governor Lynn set about securing a guide for me. On the third day Fractuose appeared

Fructured looked like a jumple Chapler the street of the street wasped from many a maker street up thes wasped from many a maker street. Since they were both for the right foot, he kept switching them to equalize their wear and comfort. His gaunt checkhones showed his lindare blood, but he were white man's clothes with dignity. It didn't matter that his short burg loose or that his trousers were in tallets.

I liked fructuose immediately. He had a quiet self-assurance gained from greats to careful calculation as a river pilet. He was luverably impressed with the trade goods I had brought along. He fundled my Ithm. 20-gauge shotgun, tracing the engravings of ducks on the stock with a herny finger.

Freetenso approved of my camping equip-



Alone in the Jonese with Her Indian Crew, the Applier Resea by the Niari River

The approved the filter of the projet metals. The best first as all the constructions of the construction of the construction

pact as well as the fall; and the energe of part of the last of th

And the property of the property of the state of the stat

the street of the street and a second to the first street and street the street of the

With a flaction of the local transport of the fraction of the first and the first of the first o

general tree seer but the morb the size of and sales, and sweet to the torus one of 38?

In a structural we street it then to where we was he are the form of the first the first then the first th

#### Stires Greet a Writing in Breedies

The carrier was not proved the March of the

As no placed and and the later, I read that

what a curiosity I was; all eyes were on me. So he from cooking fires curied up to the h unblackened infers. The hat was divided into family partitions by bamboo poles with grass hambooks crisscrossing them.

The men stepped (orward bravely, since they knew Fructionse, but their black eyes scanced my clothes. A woman in boots and

I reaches was a shattering marvel.

Since we were going to stay there that night, I particularly wanted to make friends with the women. I walked toward them as they huddled in a corner and shook each grivey band.

Young girls hang their heads in fright, Middle-aged women were openly cutious, though distrustful. Small children screamed with terror, burying their heads in their purphers' sailed cotton skirts, the women's

enty chathing.

Wrinkled crones with shrunken breasts and skin the color of mahozany gave me wisened spiles; we like a each other tempediately. Necklaces of twose hung with his pendants were the ancients' only adornatent.

#### Foot Sires near the Equator

I passed cigarettes, which were accepted eagerly by everyone, down to the four-year-olds. Chickens, dogs, and young pigs scampered, among crawling babies on the satisfy floor. The add wemen returned to their batteriorks and stangled their feet over the low slames of small free burning beneath them.

The younger wanted turned to the hage fires where they were tousting resulte, a fortill made of the course rereal farmba (manifor flour). With out resulte the labels will not hant, fish, gather rubber, or contract to join cance trops. Without sait, casabe is tasteless and dry. It is served with ad, a small, intensely hot red pepper (page 577).

The casalle Lutilla was expettly turned in black portery bowls three feet in diameter. In other lawks, coca leaves, from which receive is derived, were rossting and being

pounded into powder for chewing.

I ract men and I started bargaining for six ludians to carry my equipment. A long gutnered to view the contents of possion in the drafted bags. The startly men succeed in the rear. I was recoved to find that this was a wengen's show!

Two of the chiec women stepped up to helt the heavy field box. The oldest decided that she could entry it. Hour others came forward to judge the duffel bags. Two were young girls of 15, perhaps. Each women accepted a skirt length for her pay.

Surrounded by mudity, I felt civilization and its standards slipping away. But that night I learned the courtesy and convention-

ality that made it possible for five Indian families to two together in harmony in one makes.

I retired early and adjusted my neck to my pillow. My mosquito netting extended to the foor over my hammock and made a shelter where I could undress and sleep to comfort

The resting had the effect of Venetian blinds: I could see out, but but we seen.

# Courtery in the Jungle

Everyone was in his hammack by 7. A tew written shouted in their sibilant tongue. Simeone politely hissed for quiet, and there was absolute silence, with crying habits carefully muffled.

This courte us habit never varied in the villages. How impressive to come upon a group of primitive people who live together in peace with a high degree of mutual regard? I soon grew a test med to these commutate nights.

the cutive but more together at 4, an invariable practice among these people. We boiled rice for breakfast and started off in a

large dugout.

For my comfort the men made a low seat of crossed twics in the middle of the cance. The two yearng girls puddling in the how with short round paddles fell in with the rhythm of I ructuoso's strokes as he piloted our craft from the stern,

We soon arrived at the intrance to the Querarl River trail, about five miles above the stream's month. As I stepped out into the shallow water, one of the girls leaped from the carrie and swing swiftly with my markets. I looked down to see the heardess body of a pit viper finating down the current. I had almost stepped on the poisonous teptile.

After adjusting our heavy bags to have backs with jungle wines, we set out, struggling over projecting roots and fallen trees. The woner carefully avaided long lines of unbitella ants carrying leaves to underground nests. Fructuoso support after to shift his shoes from one food to the other. We were constantly souked by studeen showers or from an long kneedeep through swamps. I learned to carry a pole for support while tightroping across streams on slappery tree trunks.

#### Birdeall Recebety Like Bullet

We wasked in shade in the green aquarium tight of the jungle. I heard a bird with a shrill note the the report of a gun, Its slarp a cent seemed to ricochet like a mundam bullet against tree bark. Another bird distinctly song out "yalne"

In the afternoon we reached a Lad windfall where tell cerbs trees but blown down Their great brambes snagged the equipment



By the Screenich of Her Brow or Indian Woman Packs a Wold Pig to Market o Mon Calomona has a second of the control of the late of the process for a second of the control o

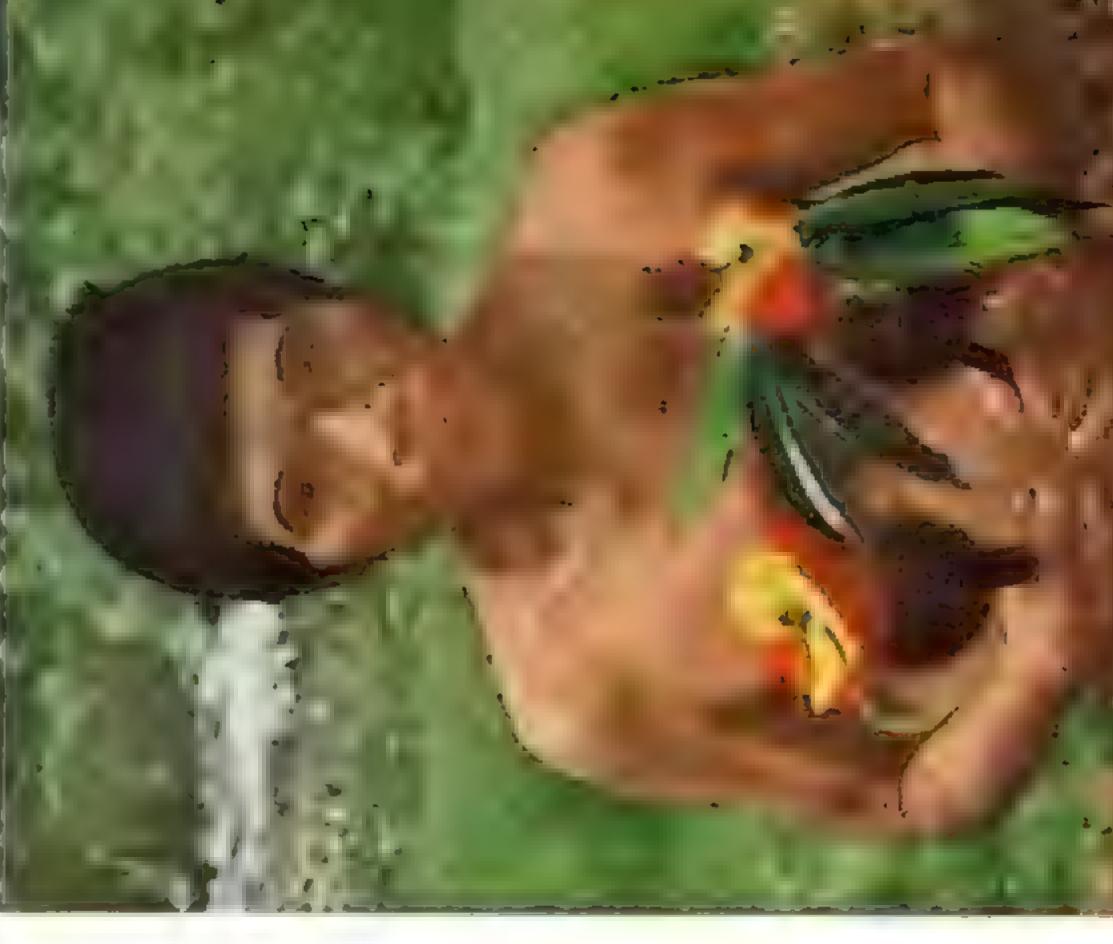


r Daring Jours int Perbick no Amiles to Avet Prantice Inden lanes Essential is a second of the posts Leaving Mar, the Amber Sarts He

Spite, the Pilot, House Marine Martilles.



Witch Datne Dabit know His Patuse Was Being Tuken Reported to the contract of the manager.



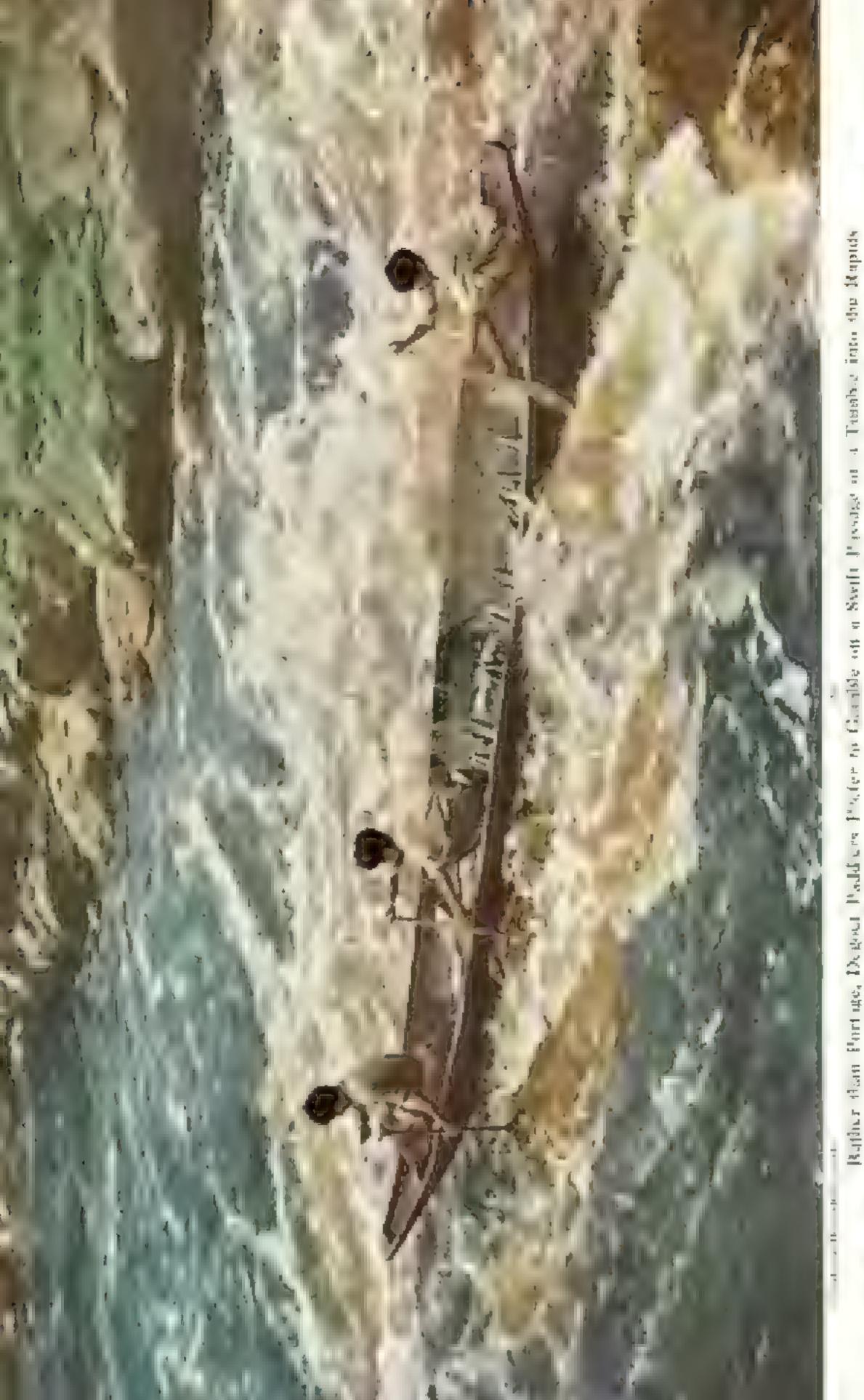


Conduind Red, the Arms River Is as Wild as the Forest Through Which it Flows

All the Law to high a Derivation of the Law transfer the form transfer to the forms. It is given to the forms.



Currosity-field Visitors Flover Like Flies over the hapedation's Laten Sp. i.



so the last the post of the American substitute to the solution of Ruffler floor Portuge, Degreet

Trust of the Propositive Place I'lls Nices I'rewiter

fish and Gr per that Williams on a Mirror

a hard a







## A Parriaging Heavy Picks Through Larger Is Westing's Back-hambing Job

We have the companies of the property of the second secon

## y Cubio Madar and Son Sceni to Reliect are Dots on a Treasured Diess

The second of th



on we jumped from trunk to trunk. Thak spinks wells mushed the s, an between branches. That night we can post under a palm-that it shelter on the banks of the Unerari.

With characteristic enterprise, Fructuoso left at once for a near-by maloca to obtain our permanent crew and a degree. Next morning he was back in a large campa with Sanuel, Manuel, and Mandit. Sanuel was 22 years old, he thought; the two boys about 14.

The Indians along this river were called Cubeos, but actually they were members of the Turano tribe who spoke the Cubeo dialect.

Ituring three days of upstream travel I grew successored to the happy, carefree river life. Frectuosa, assuming his rightful position as chief of the party, sprawled lazily on top of the equipment. Ensenced on the notion of the dugout and supported by the dured bass, I the econfortably with most of my body below the surface of the river; the dugout's purwales had no more than three jurhes of clearance above water level.

The Cubecs would shout with piec at a hight eyed frog sitting on the riverbank. They would stop the came to follow a butter-tly in its course or to watch a river becon fishing samberly.

## Flies Take Joy Out of Buthing

We cooked quick lanches on the beaches, usually taking time out for a cool dip first. There were no cambes, man-eating fish, in these waters, but small flies called jejema attacked parts of any swimmer snowing above water. Their bites drew blood.

Before our first dip, Fructaoso, tennslating for the Cubeos, said, "Senonta, they want you to promise not to look at them." The agreement was mutual, and each party reted to its own private beach,

We became a tightly krit group each performing his special duties. The responsibility of feeding four hangry Indians fell full upon me. My 45-pound bundle of farinha dwindled tapiday. Four times a day each Indian are a gour ful, dipping it lute the river for just emough water to seften the certaal, then sieving it through the teeth for sticks and leaves. At might it was folled into a glutinous mass.

I found myself preaching an ald slogan to Fractuoso, "truth in advertising." When I opened timed fond, he would look skeptically at the Jahri stid say, "Who knows, security if that is what it coet sins?" I would remain him forcefully,

One day I selected a can featuring three delicate pink pork tengues. 'How co you know they are languar de parcent" he resked. I grew fearful my-self, but the opened can revealed three whole tongues neatly inter-

boked, and the reputation of American can-

The mounters of the crew made themselves at home in most of the settlements. But in the upper reaches of the headwaters, where the river was a parrow stream of black swamp water, we entered a nationa with no sign of life. The men hung tanishy at our heels.

#### Painted Paces Mean a Famine

bructuoso called out to anyong who might be hiding in the bushes. Presently, terrified women emerged slowly from a mantoc patch. They presented a weird appearance. One had her face painted like an crange mask; another was bolding a suckly baby perperted with dye spots like a purple pax (page 382); an old women had swastikn-hordered breasts and atms to nulfied with red latticework. Bring ng up the rear was an old man with fresh test berry dye running down his chin.

abody painting the he is measure to ward off evil spirus: I wanted very much to learn what was the purpose here.

At once, we found there was no food. The test of the inhabitanty had set off for the Surubi River—"afar . . . ." From two-so to mined with an outstretched arm, holding or for of the Spanish word like a soprano prolonging a high note, perfectly conveying the endless reaches of jungle,

We immediately went hunting said fishing but the jungle yielded only wild doves and the river some ignation. These I stewed with trd beans, but they corked too slowly to delay the decision: Sanuel asserted be would not portuge to the Sarula without sufficient farinha

#### S-foot Blawgun for a Poring Knife

Although the makes lacked food, it contained finds for me in blowguns and feather costumes. This was my first chance to dip nto a sacred lact of feathers

Black towns of the spiny palm pinned topether palm-leaf parkages of macaw, green parrot, and unamous feathers. Carefully sorted by color, they were waiting to be made into new a fornments.

The and painted become in charge obviously was tempted by my trade goods and by the absence of the younger makes. A paring know produced an 8-loot-long blowgun, and he tossed in a quiver of darks tipped with fresh curare poison.

bor trittors, combs, and bright-red ribbon, I secured a facely woven headdress of paraket feathers with a train of soft, whate breast teathers of the river beton; also two while epret skins crudely tarned into a breast skield for a witch doctor.

I fixed a red bow to the greasy hair of one

of the women. While I did so, the woman of the the orange mask touched my bur. I netended not to untire while several more mushed leathery palms over my head. In Cabeo they told me that my hair was like salk,

What struck me most about these people was their utterly lost look. They might have been abundanced to die—the sickly, the middle-aged, and the old—since the surrounding jungle was bunted bare and the river yielder no fish. There was no doubt in my wind that in their plight they had applied paint as a means of invoking friendly spin's

My hammock, at this encampment, was slung between two trees at the edge of the cave-dark forest. To keep off the dew, which fell like rain, I had thrown punchos over

the masquito-netting caregy.

Sough as the proverbial bug. I lit my ratbide lump and pulled out a mystery novel. The reconittent noises of my ladians moving and talking around their campians died away, and the jurgle uncerworld came alive. The walls of netting waved like silken spider webs in the breeze

#### Imps of Night Dance in Glee

About S o'clock I was aware of movement through the trees. My hammock pumped slightly up and down. I thought Fructuoso was testing the support ropes of my "bed-room"—until I beard a chotus of squeaks

Quickly stepping clear of the nething, I flashed the carbide ray into the velvet blackness. Six sets of eyes stared at me from the rapes. Small mankeys, probably squarel makeys, were bouncing up and down with glee while they chewed the strands of rape. Their parents high in the I tanches above shricked advice."

I blew out the lump and in the soft, caressing darkness the nimble little creatures took flight, cluttering bkg noisy children.

As the full moon should on the colling river, I was quieted by the knowledge that foul shrieks like trombones were only tree frags.

Later I woke up, suddenly alert to a beat, a far-distant heat, in the air. I could not be sure the sounds were of human origin until I heard the tam notes of thetes. A dram commenced a double heat, and the whole thythin rose to hysterical pitch. As the waves of sound faded, I felt my heart pumping with excitement; then the primitive metady would envelop me again.

there the beed first fire I usked Frustacea fibe had beard the drums.

"No," he said unbelievingly, "there were no druss has night."

He and Sanuel laughed at me.

Here began the jungle trail I had planned to follow to the Sarubi (map, page 372), but

my Indians adamantly refused to go on. The trail was grown over, the jungle dark and ballidding, and no Indians lived there, they said. I had to yield.

So next rearning we set out to retrace our steps downeiver and, after we but traveled some distance, it was my turn to laugh. We arrived at a malora where music std. was playing. A jungle dance was being held.

#### Flowing Bowl at a Jangle Jamboree

When the brilliant orange fruit of the paparaha, or peach pulm, ripens, a festival is declared (page 381). Three days before the dance, the fruit is musticated by 1d women, who spit it expertly into a dugout cause bruled not in the niddle of the malaca. The mush is covered with palm leaves to ferment

The captain proffered me a gourdful. I drank come; surprisingly, it tasted like northing worse than a powerful fruit ricer. Samuel

finjshed it off in one draught.

Women sat on one side of the unloca, and the men, shiny with sweat and fresh pullit, sat on logs. I went through the ordeal of passing eightettes and shaking wet hands. These people were not frightetted; intoxication freed them from self-o necrotences.

The orchestra was swelled by four boys with reed flutes, three others who stood up playing heavy choes or flugeolets made of hard palm, and two with resilient wrists who beat hollow drums, setting the pace for the despects.

Young warriors in sets of four shuffed back and forth in the sand, linked arm in a rule beat always descended on the left foot; tround the left ankles the braves had tied hemp anklets of nutshelts or jaguar fanga. The women just takked along, lunging on the dancers' left arms, being paid to heed.

The captain sat by my side. His capacity was magnificent. For every goard passec

around he drank a ful, one first,

Sangel sat at the captain's feet and politely held up his end of a conversation as drugging as the music. After each statement, Sangel agreed with a loud "ub-hah" and repeated the cuptain's words, parestlike.

Eves became bloodshot, the dances more suggestive, and the bottom of the came ganch bowl was being scraped when I left for my basemock, which that night was hung a good distance from the clearing.

#### Vaupés River Shows Its Teeth

On our way next they we approached the mouth of the Querum where it enters the Vaupés at the Brazilian border. Here the fiver took on a different face. We threaded number tooky channels, pushing and pulling

\*Sep "Monkey Folk" by William M. Mann, Naview Geographic Managers, May 1925



Indian Heave the Come over Rocks is a Tug of War Against Founday Rapids

le surroll to the W. price and rebulet to a start

torn by a state of prime or original form by the first of the first of

The vertical way to the book of the last o

that the plant of any of war guide of a war of a large of the large of

#### Wester Williams in Warter Proces

Wheth the content of the particular of the first of the content of



There Massles De a Man's Work. Caben Lad Paddles Tirelessle Through the Das Mass, with a class of the property of the Lad and son I for a case of the late of the

the solution of the solution o

The head of the Ampresant interdent true now eight remains the Anthropies the result of a first document that the prince of the date

Le de la la company de la comp

Refig of the first set of the state of the s

#### "Is That a Wiens at 2"

A large and address retails parell to the grant to the control of the control of

Like an emission of the last the resident to the beat the resident to the part of the part

On the trail to the Aiari there were no women to be brised with skirt beaches. Only bructures and dependence was written in their trainers. They were craftsmen taking beautifully woven baskets for trade with the Vaupés River Indians.

This jungle was luxuriant with birds, monkeys, and wild pure. We stopped under a tree full of red howling monkeys and denated shooting some. Since they would panic, we decided on bigger game. When a young tapir crashed through the brash, Sanuel and I took off in parsoit. It was like knocking over a ponderous Humpty Dampty.

Tapirs, which may weigh up to \$00 pounds, must be shot through the head. If only weighted they are impossible to follow, for they run blindly through the growth. We feasted on tapir that night on the banks of

the Aiari.

#### Fried Ants as Hors d'Ocuvres

The palm-thatch shelter rasiled with smakes hunting rats. Then into the light of our fire marched ants prime for coasting, being three-

quarters of an irch lang

The Cubess swept the anti-into their palms and would have toasted them in the askes of our campline. But I pulled out my frying pan and greased it with taptr int. As the men tossed in handfuls of antis, I stirred and salted them. We apportioned them as bors d'occures; they tasted like delicious roasted pecars,

Fructuese left in a operation host to find a large depost. I pave Sanuel my gun, and he happily faded into the forest. This, I decided, was an auspicious moment to give the toy airplanes to the boys. Manuel and Manda were captivated by wheels that moved and by

the slow turning of the propellers.

Through all the rapids that followed. Manda kept has toy plane in the cance beside him

Waen Sanuel returned with a curresow, he speaks sharply to me in Cubes. He wanted an

amplane loo!

That afternoon Sanuel turned surgeon, With a needle be extracted from the boys' toes the sans of swollen eggs left from bites made by the foot flex, or jigger den. The female buries herself toder the toenads, laving eggs which become extremely paluful when they mature. The principal danger is intection after extraction.

The Aiari proved to be a wild red-brown rwer which run ity cold (pages 373, 378-379). Tapits came down in twos to drink and garge on lily roots. At night we heard jaguars coar,

Fructuoso had been able to a brain only two small shell-like diagonts. If I merely brea hed hard, the shahow craft secured to mak. Terrifed, I brong on with both bands. At this

the Unbeos shr elect with Laughter. They kept asking me questions to here to be a related bead, but I kept eyes and rose to be straight about as we shot allowestream.

The familias are meat eaters. At their villages we were offered reasted deer shanks and wild duck. Ammunition was highly valued in trade. For the promise of some, the owner of a large dogout not only lost it to us, but guided us through the worst rapids.

Before long we came to the brink of graids so violent that even the Cubers decided to portage. They went nhead along the trail.

That was when I met "Tarz in." No other nickname could be so at propriate. He came out of the growth and stood with his hands on his hips facing me. Not a mustle moved His Dutch hab stapped at his eyehnows; his lips were parted to show chiefed teeth

Showly he came toward me and did not stop until his straight nose was an until from mine

After my first fright, I realized that Tarash was only curious, productly be had never before seen a whole woman or blue eves. I stepped aside and walked slowly away, although I wanted to run. Behind me I heard the soft padding of bare feet. Had I stopped suddenly, Taraan would have bruised his chin against the back of my head.

We came all captly to a clearing, and I was surprised to see a group of malocas instead of the usual large one. It was a natural stopping place for the night. But we found so much of interest that we stayed a week,

Farsan joined his wife, who was surrounded by five small chaldren. This eyes never left my face. I wanted to return his stare, since his unrestrained forceness fascinated me.

## Some Indians of Pygnty Stature

The Ban'ves clustered around us. Some were of pygny stature, with stanted though muscular bodies. The women were back-cloth skirts shredded out of tree back. The men were weavers, costume makers, and wood carvers.

The captain of the settlement capped his hospitality by presenting me with a twirling stack, which he wholed in his left hand and struck with the flat of his right palm. The revolving stick vibrated with a high singure noise; its sound, and the authority it conveyed, carried throughout the near-by jungle.

The captain explained that his little boy was destined to be a witch docter. He brought the lad forth covered with maroon dye. As protection from evil spirits with which he would later be familiar, the boy wore rattle lights of hollow outs, and around dlo claws and jaguar teeth around wrists and publics. Of special power was his twine pecklace wit a single white highly polished quarta pendant.

The witch doctor currently in office was receiving visitors in a separate malnot. I entered hesitantly. He say in a solitary hambrook in a large empty for us. I thought he was askeep until I not red his eyes, mere slits. They followed my every movement.

## Doing Business with a Witch Doctor

A hark shield covered with mystic symbols hung on the wall. There were dark red pattle gourds adurned with parakeet feathers, and peckluces of Juguar lanes and armadillo claws.

Festing the mechaine man's susceptibility to a trade, I pointed with a shiny bread knote at a torth necklace. Its eyes girared and he arose from his hammock. Its nody was small and shriveled, his bend prepartions ely error more. From his breechclath hung clusters of cloth sacks that I knew centained powders, heres, animal hair, and other charms.

The witch acctor selected two finely carried red goards topied with massay feathers, and we took them out into the bright smalaht. He did not speak, but traced the goard carrings with a forger tip. When I took pictures of him, he stared ancomprehendingly (page 377). He accepted the bread knife with alterity, however. That night a tooth necklace and a red goard appeared mysteriously on my hammonk.

The next day I followed a well-worn tradaway from the clearing. I wanted to get away from the finnicus, who were constantly was large me.

I came upon a small but and put my head on the documenty. A young good- noting leading was being in a humanock in a room bate of cooking utensils or any evidence of being head in. He took in the appearance of his utterly strange visitor, but did not move.

Standing there, I such easy realized that this might possibly be the convace, or male child-

bed. I retired hurnedly,

This discovery, authenticated by Fructionso, was an important one. Under questioning, bound conce led that a newborn child was threatened by many exil quarter upon its entry late the world. But a mother and better had to conduct themselves with care.

#### Father Fasts after Childbirth

Although the mother returned to her work immediately after childbirth, the father retired to an isolated hammock to lie still for several days and fast. After that, he might cat a little rasabe, but would not be able to partake of linds or fish for a month. Both parents, in fact, would be an a strict first for as long as six months.

Far from being an act of laziness, this procells a control of the sense of the spensilility toward the miant. The relationship is considered so intimate that the child is affected by anything that happens to the father before its new soul has become accustomed to the earth world. If the father gorged on tapir, for instance the child might the of indigestion!

That night, while we prepared our meal, a windstream taged through the growth. Above the noise of lashing trees fructures informed me calmly that some years ago the Batawas

had been connibalistic.

At my request, he turned to the captain and in Isaniva asked which part of the aunum body he considered the most tasty. Without hesitation the captain replied, "The palm of the hand,"

is an altimate gesture of acspitality, the captain invited us to attend a festival a week later. Frighteso translated besitantly

"Schortta, he says that the father of his wife is huried where we are now atting. In a week his spirit will be reborn. They will cook his remains to prepare the liquid of which his family well particle."

I later authenticated what the captain told us. This gruesome-sounding occurring has been reported from other tribes in the north-western part of Brazil. The basis for it is faith in reincarnation and the belief that the virtues of the forefathers can be transmitted to the hying descentants.

the right out in the rain and wind. As a right of a distribute the depth of property thought but and dank.

#### Jungle Indians Dazed by City Sights

The rainy season, to our dismay, set in with violent storms. Each day now the boiling waters of the Vaupes would rise, making upriver trayel a constant battle. We could not afford to delay our return to Math. My desire to reach the Isana (Içana) River would have to wait for another trip.

My variant travel mates elected to stay with me the long way back to Mith. For them it was a chance to visit a great metropolis. There

they saw their first cows!

the circum showed our tried and trusted one the sights. Even in his towel-worn garband the shoes with the turned-up toes, he had the air of a man about town.

The Cabeos strolled on the plaza in a daze. When I said goodly e to them, they looked more than ever the simple-natured thil iron of the jungle to wham I had grown so devoted.

It was my turn to be flustered when they said: "We would like you to come back again, senorita, to show you other, vaster parts of our jungle."

I was tremendously pleased to be their

chasen paying guest!



BY GIRLL OF THE ANNY UNITED C. MARSHALL

It is the the second of an important trip with Grant true of an Army & Sources. As one are drawed across the desert, or constant of the contract the runniled mesas to one of their turnel to it.

Have you ever seen the zone obges near the haz he is cuited,

I had be seen a fact I even leard of the set of the light of the set of the light of the set of the

The corious thing about them was this: So huge were they in outline and so should in it is a sure that in the sure standing only a few yards away a two enders a bills mar canally to affect a conservation.

In sport, not even their creature is all ever have plimped with the line which to all design, I'm would be a sent of the total and the track of the

"When these is dies were first reported to me, and these is been a law to minarching Mark to be all only a few hours' fight away Calling on one of our young pilots, I asked him to reconnected the area. He did and the in the law rething photograph photograph above, the in by his technical sergeant, Stephen Mark to World you like these what that in three showed.

I said that I would, you much.

General Arnold promptly changed our places of a collection of a collection of a collection of a collection of a second at River above Elythe. Then we say both a form, and yet a collection outline and in outline addish in form, and yet a collection of a collection of a collection.

It was a sight with the section of the National Geographic Society is Society of Frusters, I suggested that important questions about these gravel efficies still remained Who made them? What was their purpose? Were there any more like them in the vicinal.

New, in the article which follows by brunk M. Setzler, I am happy to find some of the awers authorized with the distance of the same authorized with the distance of the same sauthorized with the same sauthorized with the same sauthorized which hallows by brunk.

# Seeking the Secret of the Giants

A Hving Archeologist Attacks the Mystery it Stronge Eigures, Visible as a Whole Only from the Air, Outland on Descriptions

# BY FRANK M. SETZLER

Head Curator, Department of Anthropology, U.S. Sationed Museum .

With Illustrations by National to graphic Photographer Reduct II. Street

mind as I swing abound the Catalina amphibian. The first was that archeology is a terrestrial scheme; it was surely never meant to be night the. The second was that, if we succeeded on this mission, we could with confidence take up a career of locating needles in paystacks.

Our immediate objective was this: to find, and photograph, in the parched, trackless desert near Edythe, Chlifornia, crude figures of nea and animals reported by sirphine pilots (page 389). Later I hoped to solve the mystery of these immense and lonely figures—to arrive at a scientific conclusion as to who made them, when, and why.

Faking off from March Air Force Base, just east of Los Angeles, we flew through San Gergonio Pass, skinnined north of Palm Springs, skinted the date graves of India and rundled over peaks that had claused more than one unlacky gittiner.

Dusty and anonymous, the desert spread out before us. On its barren fure we could discern a few trads, faint roads, and the whorks and cores scribbled by the steel treads of General Partitu's North African tank corps, which took its pre-invission training here. To the south extended a thin blue sareak that was the Saiton Sea, 241 feet below sea level

the Colorado River and the green irrigated feeds faunital tack from it. As we followed the river's course northward, the cultivated land gave way again to mesas, brown and tan, and to gray, dry creek beds.

#### Giant Figure Basks in Desert Sun

From the plastic "blistes" on the left side of the fusebage peered photographer Dick Stewart of the National Geographic; I necepted the bubble on the right, We stared down at the desert floor, searthing its every crevice as the hig amphibian began to circle and recircle the area.

Suddenly and almost simultaneously we spotted our target. On a bread bare mesa sloping up from the mesquite-dotted plain stretched a gizantic figure, crudely outlined in the dark-brown gravel. It lay upon its back, terms and legs flong out as if sprawled

there for some interminable sun-bath (pages 594-395).

From our altitude of 1,500 feet, the great effigy scened about two at three inches long; on the ground, we quickly calculated, it must extend a good 100 feet from head to foc.

Wheeling around, we scrutstized the surrounding territory. In a minute we sighted two other returnment figures, then a third. One was a misshapen four-legged creature, the others an odd circle and a scragely clipse.

In putlent to get down to earth at once and examine these welld caricatures. I checked their location as rapidly as possible by reference to the river, an adjacent highway, and a line of high-tension weres. Then we flow north along the Colorado, scaring over Parker Dam and its long new reservoir.

As the amphilian dipped over the Topock, bridge, which carries the Santa Fe tracks across the Colorado. I again scanned the ground carefully, for in this area, too, other efficies had been reported.

All at once, on a T-shaped mesa farther west, there loomed up the perfect outline of quather grotes per figure. Hunking sharply so that Dick could bring his counta to best on the grant, we feasted our eyes upon it.

#### Ploneers May Have Possed Site

What a site the big fellow had chosen From this vantage point he could have watched the first little hunds of Spanish explorers, the creaking wagon trans of the pioneers, the coming of the railroad, and finally the firsh of the san on metal wings.

When thek had photographed his fill, we flew northwest, over the Granite Monatains to Crucero. Picking up the twisting selver thread of the Union Pacific tracks, we followed them wes, word, trying to locate various calms and gravel mountly described by earlier investigators. Erosion and wind-blown sand, however, seemed to have erased or disguised them effectively.

\*F M Scieler also was I lensely Leader of the National Geographic Source-Southenance institution of position to Ambem Land. Australia, in cooperation with the Australian Government in 1948. See in the National Government in 1948, See in the Statement Land," he Charles in Mount ford, the cember 1949, and "Cruise to Stone Age Amb in Lond," by Howel Walker, September 1949,



# Patrol Pane, Helicopter and Prace Posts the Search for Science Indian billions.

The country of the second of t





# \* Stoke Amounts 1 New Day wery Besult the Colorado

A system from the 3 thrill design of the Santa and the control of the state of the santa and the state of the

A track to the track of the tra

\* \* A are critical by a series W. I.
Francisco by W. C. and The are a series of a series of the contract of th





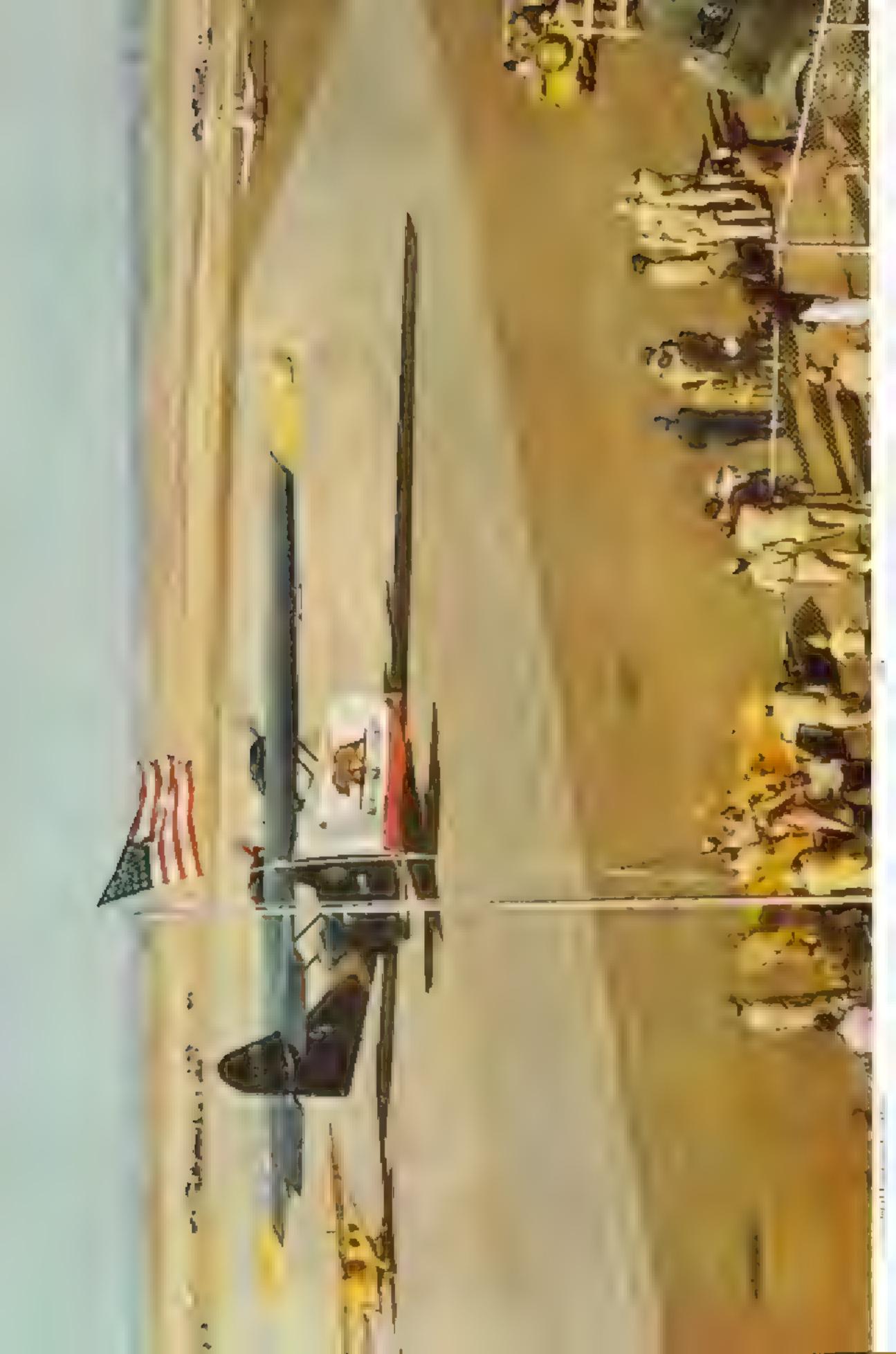
A Gian Smelantang on a Casifornia Mosa Wears the National Geographic Flag

It was to be the first of the later General of the Air Force Arms by the processored questions marrows in the Air Constraint of the Air Constraint of the processor of the Air Constraint of the processor of the Air Constraint of the Air Constr



Serlprors in Great Made a Design Writch Only Gads it Birds Could Grosp

With a constant of the first of the first of the first state of the first of the fi







# A North of and P.L. Creek Maps Before Going Maft to Vice Gunt and Herse

Mr Serva serva och bliger bet vitt men ber grippe i Saginge. Mit alvaten et pritabilian iven bli bar ben ben ben ben be en be Sile i in

w high how you have a second of the property o



We headed back to the alrhase. Douncing through the air currents of Cajon Pass, we held tight to our sexts, then relaxed as the plane dropped down, over the green citrus groves of San Bernartino to March Field.

Now that we had sentired our objectives, I was easer to see them at all se thinge and begin the careful study to which I had been assigned the by by the National Geographic Society

and the Smithsonian Institution,

As beneral of the Army George C. Marshall had pointed out to The Society's Board of Trustees, surprisingly little was known about these figures. Before leaving Washington, I had made a preliminary sparth of archeological literature, without forcing wash information.

In the Air Corps Arres Letter of October 18, 1932, I had found a four-page article by 2d Lt. Minton W. Kaye entitled "Was There An Acceptanying it were two small drawings of

offigies reported seen near Blythe

A 1930 report by archeologist Makedon J. Rogers on Early Lather Industries of the Lancer basis of the Colorado River and Adjacent Desert Areas contained a section on "Gravel Pictographs" which gave a good description of the Islythe figures

But that was about all I had I hade!

Airmen shared our interest to the problem, Through Brig. Get. Say Smith, of the United States Air Force, arrangements were made for as to have the help of Plight R. 4th Air Rescue Squadron, at Calcharda's March Air Force Bus. It was in Flight B's Catalina, in fact, that we had flown our first day's recommissance along the Colorada.

# Help from a Helicopter

After an eligy-haunted night a sleep at the airbase, we returned by Catalina to Riythe, Here we were som joined by the Air Rescue helicopter which was to help us get a closer look at the eligies (page 398), blying it was Capt. John R. Fracook, an old friend of The Society. He had prioted Dr. Matthew W. Stirling and Dick Stewart on the National Geographic-Softhsonian archeological expedition to haracia in 1949.

That night I went into a tortical hubble with Peacock, thankful that his expenence with the Panama expedition had familiarized him with the curious requests an archeologist

is libely to mase

The pean we agrees upon was for me to drive up in Flight B's truck and for Back and Feacock in the belieopter to track down a running effigy site to the south. They would then join as at the giant's solaring ratifical blythe—if we could find it

I was not overly optimistic. It was one thing to spot these figures from the air, where their yellowed oreign stool out distinctly against the dark gravel; it would be another to ident by them from a strictly burisment berspective.

Our lack held, however. Pushing some 15 miles north of Blythe, we turned of U. S. Highway 95 and came upon the effigies almost immediately.

# Kilroy Was Here, Ton

It was quickly apparent that others had anticipated us. Whether or not thre knew what they were intruding upon, motorists had crosscrossed the giant's figure and its circle with tire tracks and a beaten path (page 397).

The four legged animal about 100 feet southeast of the circle, however, proved to be virtually unscathed. It had a long tail, we found, and near one foreleg was a design resembling a coiled serpent. These, like the human figure, had been sculptured by scraphiz aside furrows of dark-prown gravel, revealing the underlying the und gray soil of the toesa and thereby producing the figures in contrasting color.

The efficies themselves showed no signs of having required special tools. Their creators could easily have constructed them by pushing gravel to one side with their feet and their shaping the windrows with their hunds. The engineed circle which encompassed the budy, on the other hand, seemed to have been made by moccasined feet pennding the brown variable delooking gravel into the ground.

If the scraped-act, ridged chigies were hard for a pedestrian to see, the heaten-down segments were also be invisible until one was on top of them. Even then, it was not easy to

make out the total design,

One of the first and most obvious questions that occurred to us was: Undd the quakers of these sculptures have hoped to view then from some near by eminence? To settle the point, I asked Captain Feacock, when be attived to fly his belicopter to the top of the hearest ridges on the south,

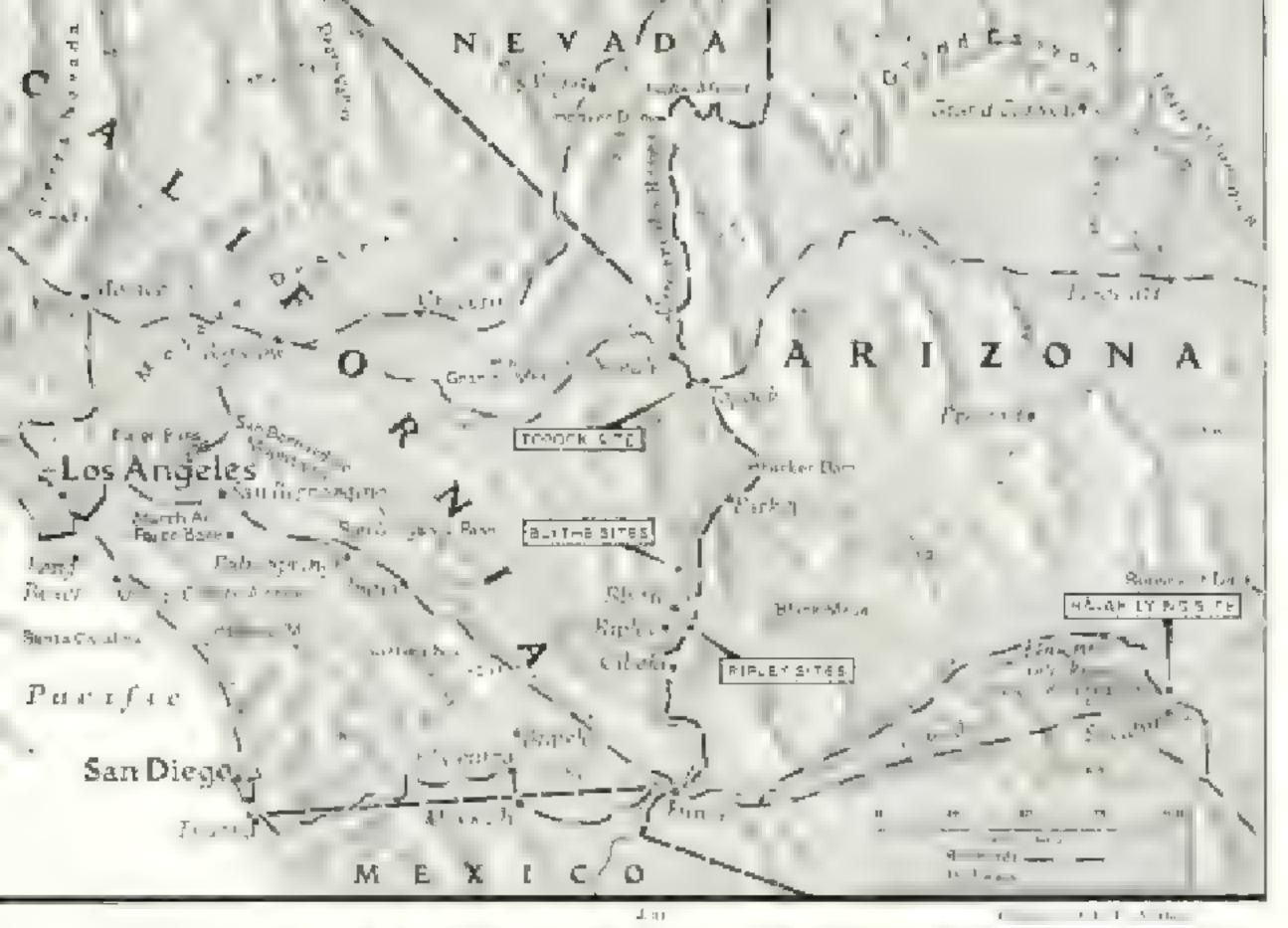
He did so and reported back that, even though he knew where the efficies were located, he could see no trace of them. I went up asself and confirmed his observations. At hil top height the figures melted into the uni-

furnit patinated gravels of the mesa.

The measurements we took of the efficies revealed that we had not been for off in the quesses we had made from the Catalina. The human figure with how dubbed "Site No. 1 lifythe" stretches 94 feet from head to toe; his arm spread we found to be 67 feet 8 inches

The largest and most impressive is the

<sup>\*</sup> See "Exploring Aprient Pannana by Helicopter," by Matthew W. Schling, Natureal Geographic Macaziest, February, 1289.



# Archeology's Blyde-Ripley Area Is ban ilian Terrain to Air Force Pilots

As Reade Service, large marising for I'm an efficient took off from California's Marc. An Entre Bare, climber, through San Cancondo Pass, then drough easts. If to Blatte, In 1962 an ethnologist accovered the Mannopa, Indian and Sanatab Arlando, to be a given some nutlined in gravel at a thride. The National Geograph of Smith mian expedition of 1951 found summer agence excented by Indiana along the lower Colorado.

female offigy at Sac No. 3 B ythe. It is 170 feet 9 inches long, and its cuttlang arms measure 158 feet 1 inch (pages 389, 396).

Several features distinguish this latter figure. It has exaggerated elbows and knees, rather well-defined fingers and tues, an abd men-slightly distended on the right side, an elangated neck, and quartitie status to represent the core, mouth, and breasts.

Let us the figure's most striking adorament consists of six strands of hair on one sale of its head and seven on the other. These extend 39 feet 5 inches to the right, and 45 feet 11 inches to the left.

The ather types of figure proved to be on the same buge scale. The quadruped at Site No. 3 turned out to be 53 feet long and 43 feet 10 inches tail (pages 389, 398). One of the larger formations of circles and other insignisis 296 feet long.

# A New Set of Giants Found

Having duly noted these and other data about the Blythe figures, we turned even more eagerly to a new find. Peacock and Stewart, on a recognissance flight over the Black Mesa sector, east of Blythe, had confirmed the existence of effigies bitherto unknown.

Hacktracking to Blythe, we inquised about possible roads leading to the area. Assured that there was a dry season road which would oring us fairly close to our objective, we set out along U. S. Highway 70, with the behouter flying "cover" for us. Just across the Colonolo River, in Arizona, we drove south along the Cibela Road

From the howring copter, Peacak and Stewart directed us by radio. Finally we came to a high bluff overlooking the Colorado and the flat brigated fields on the other bank, with the town of Ripley off to the west.

"Figures are right aboad of you," said. Stewart over the intercont.

"Maybe so," I radioed ba ', "but we won't know it tid we stub our toes on 'en."

Presently I cought sicht of a faint these then another furcow, and noother. We had arrived (pages 392, 393, 403). But from the ground we still could not tell just what we were looking at

There were three distinct groups; we could theigher that much. It was apparent that some of the figures had been made by scraping and others by treading down the gravel. To get an accurate idea of all the markings, however, I had to get up in the air

Peacock obligately landed the lighter, and I climbed up in front of him. We citaled

slowly over the mesa.

to my surprise I found that even from this height some of the figures remained obscure. The "desert yacrish" was not so dark as at ally the, and the contrast with the materlying out was less sharp. A different geologica terration, moreover, had led to more proid arcsion; one haman frame, in fact, had lest portlons of his lower Lubs.

Nevertheless, at Site N i, I Ripley, as we christened the first group, we could make out a figure with atms aki plut which proved to be 50 feet Jung. Another grant, a little to the north of it, measured 118 feet from the left shoulder to the edge of the cliff, where erosion

and lapped off its feet (page 403)

Site No. I held mother human effigy of the artaglio, or samped, type similar to those at Blythe. About 36 feet north of its head lay a beaten aim to some 48 feet in diameter. As for Site No. 3 it consisted of clades, partly eroded, at the brim of another high mesanear by.

# Horselike Figures Form a Cive

More than ever, now, I wanted to tackle these questions: How old were these emples.

who made them, and why?

To get the answers, however, would take digging of another sort, not in the gravel of mests but in the sometimes equally dusty deposits of archeological and ethnological literature. Accordingly, after a final day's survey of the hlythe sites. Dick and I returned by place to Wash ugton

There I turned my attention to one of the first and most obvious clurs—the big quadra-peds at Sites, No. 4 and No. 3 Blythe.

They looked like horses, certainly. Has what long of borse? The late Pleistocene borse which more manued the American plains, only to disappear about 10,000 years ago, or the European horse which the Spanish brought into the Southwest in 1540?

To wang earlier archeologists, of course, the question might have seemed an empty one. What proof had we, they would have asked, that man had arrived in America soon enough

to see a Pleistocene horself

West, we are still not rettain that he ever did. But we do know that paleoutologists, digging up some human bones around Melhoume, Florida, in the 1920's, uncovered in the same grological stratum 250 terth belonging to Heistocene horses. And we do know his that horse that case a paleoutologist on a to 12 m., a

Thus, if the Melbaurne evidence is accepted, Paleo-Incian man of about 10,000 years ago could have used the Pleatmente horse as a model

However, a different kind of evidence makes me think the effigies were made a good deal later. That is the fact that the shall we depressions which comprise the great Hlythe "borses" and ther—unlike the surrounding, andisturbed sarions of the mess—are coated with no patitud, or "desert samish."

# Patina of Great Age Is Absent

That pating according to J. D. Landermik, probably comes from the action of certain lichers forming on the gravel. These lichers serve as a catalyst for deposits of immending manganese oxides which, during the intense bear of the desert's dry season, become Laked into a brown and black conting (page 402)

How long does it take far that varnish to develop? Unhappily, we cannot yet be sure But I think we can be pretty certain that it torms in less than 10,000 years. So it is not very likely that Indians of the Lite Pleistocete period, artistically inclined or not, made these porticular figures. Furthernore, if they hod, we certainly would have found far greater damage from croston.

That beings us right up to 1540, for in the antervening centuries there were no horses around to serve as models (or the infan sculptors.

# Not the Work of Nomads.

Here we can explore still a different line of thought. The very size and scape of these obigies indicate that they must have been carved by members of a large and sedentary society. Their makers were not turnade, in short, as so many of the prehistoric for pre-Spanish) Indian peoples of this region were.

The mysterious sculpturs had to be tarmerous simply to see what they were depicting; our own observations demonstrated that, have were five or six of us stationed ourselves at various points along a figure's extremities, we could barely make out its design. Thus hardly seems possible that a couple of normalis families could have made such a figure or that a people would go to the immense pains of creating these hage effigies only to heave them and wanter on

When we examine the history of the South-west, we find that the most statile and most important Indians living in this lower Colorado River area in the post 1540 period were the Yurum-speaking tribes.

It was not exactly a peaceful era. Hernando de Alarcón, one of the first Spanish explorers, wrote of the Yumans and their contemporaries

when they had no cause to make war, they assembled together and some of them said let us go to make war in such a place



-



Secondary Buches

and then all of them set forward with their

weahous."

The Yumans, however, seem to have entivived this brawling and to have maintained for generations their grip on the B ythe-Ripley sector. They were the togical candidates to tag as the creat its of the obligies

But there remained one standing block. In all the historic and languistic literature dealing with the Yuman tribes, their legends and their mythology, I could find no special reference to the construction of these pigantic

figures.

That was a paraler. However, (allowing up a lead suggested by Dr. Arthur Woodward of the Los Angeles County Museum, I came upon an intriguing piece of evidence. It was an account set down by an ethnologist, Dr. Frank Russell in 1901-02, and it dealt with a myth held by the Puna Indians of the Glia River Indian Reservation, near Sacaton, Arizona

This was the leaend: To the daughter of si'al Ten'-wtak Sivan was horn a strange-looking child, with long claws instead of impersand fors, and teeth that were long and sharp. People panied her hai-ak, which meant something creaciul, or feroclaus.

# Indian Monster Ate Children

In only three or four years the child grew to maturity. She are any kind of meat, cooked or raw. When she legan to eat enildren as well, the people became frightened and tried to kill bet. She escaped, however, and fied to a cave.

Then the people called upon the all-powerful 'Elder Brother" for help. He went up to the cave and destroyed the monster.

To commensurate this deed, the Pinta built a strine. Here is how Dr. Russell described it:

"Hà-āk Vā-āk, [57] Hà-āk Lvina, is a crude outline of a human figure situated about 5 miles north of Sacaton [about 30 miles southeast of Propenix, Arizona]. It was made by scraping aside the small stones with which the mesa is there thickly strewn to form furnows about 50 cm. [20 juches] wide.

"The body furrow is 35 m. [105 feet] long and has a small heap of stores at the head, another at a distance of 11 m. [35 feet] from the best, and mother at the junction of body and legs. The latter are 11 m, long and 1 m. [3 feet] apart. The actos curve cutward from the head and terminate in small pyromids."

When I read this account, I belt certain a real clue had turned up. Here was a letter-perfect description of a giant human emgy like the one we had seen and phot graphed at Site No. 2 Blythe. Surely this was the mythological link for which I had been searching!

If we had solved one problem, however, we had posed another. How had the Firms came by this legend and this shrine building tradition? The Pinns belong, linguistically, to a group state distinct from the Vanish culturally, they are more closely tellors of the Pachlo tribes. And the archeological evidence indicates that their ancestors did not live along the lower Colorado River.

Yet, I reasoned, there must have been a "bridge" between the tribes. At his I found

Fit.

# Morieopa Form the Bridge

In 1775 a Yaman speaking tribe called the Maricopa were hims along the Lika River, which empties into the Colorado near the town of Yuma, Arizona. Shortly a fead by ke out between the Maricopa and the Yuma over the selection of chiefs.

So little did the eventual tring) warfare become that the Maricopa finally pelled of and joined forces with their eastern arignizers, the Pima When, in 1857, the Yumo and their allies raided the Maricopa in southern Arizona, they were drawn off by combined

Mark opa-Plana forces.

We can only guess, of course. Yet it seems eminently reasonable to suppose that the original been I of Hi-ik stems from the Yuma, in whose sector we find so many of the intustic shrines; that this legend was shared by their linguistic brethren, the Maricopa that the Maricopa passed it along to their colleagues-in-arms, the Pima; and that the Pima, in turn, preserved the partit long after the Yuma had forgotten all about it.

this specification gains somewhat in force when we consider the position occupied by the Maricopa medway between the Yuman and Liman mythologies. The Maricopa shure about half of the Incidents which comprise the Puna's creation this. The after half are more comparable to those of the Yuma.

In short, the Maricopa are our "burge."

It is not easy, and it is often rash, for an archeologist to date things with any precision. Nevertheless, as I looked up from the books and reports I had assembled at my desk in the Smithsonian and let my paind's eye rove for a moment across those strange effigies storage up at the southwestern sky. I felt impelled at least to register my modest guess.

Here we ge, then. I think the giant effigues we found at Blythe and at Ripley were made by Yuman-speaking Indians, that they served in some fashion as shrines to the memory of Hā-āk and her destroyer, Ekler Brother; and that they were fashioned sometime between 1540 and the middle of the 19th century.

<sup>\*</sup> See 25th Annual Report of the Bureau of American Standings, 1904-05, page 254, figure 102.

# Nature's Clown, the Penguin

BY DAVID HELIAUR AND MALDOLM DIVIS



It, in same distant feincarnation, you should become an empetor pengain, the chilly month of July would find you squart ng on an die field in Stypian darkness with an egg on your feet—and very happy about it all, despite the 50 -below zero like zant railing your feathers

Though the prospect may leave you cold, to be a peagua is to be a bird of distinction. Aristocrats of the bird world, progrims stand in a class by themselves as one of the four great supercoders of birds.

For as long as ships have sailed antareth seas, pengulus have fascinated the humans whom they so comically seem to resemble?

Magelam sighted strange "gress" near the Jatagorian coast in 1520 in the kesso vast his two ships were easily provising order with them Taday South Procedure explorers await their list sight of an Adelie penguin as a sure sign they are at last within the Antarctic Circle.

The name "peagum" is thought by some to have originated with little-century Spanish navigators, who called the linds piageons, from piageons, or "greasy one," because of the abundant fat which blankers their bodies

Others claim the term copes from the Welsh pring gaput, on "while hear" while a third qualon suggests that the Line is a Lotroptic to of "pin wing, a bird whose wings have been alipped

The penguin has been with as for a long time. More than a score destinct forms have been identified from foods

# Giant Penguina Once Rouncal the karth

Making a see as see, were the blimality awere acginning to rise out of the primon is land truly signath, pengulus cramed parts of the carth. These gargantuan specimens which flowshed in the Age of Maranasa, and thought to have reached five feet in height and to be weighted more than 200 pounds.

less I remains of these creatures have been unearthed in New Zealand and on Sevin, in Island off Palmer Penlusula in Actarctica wide other important fragments have come to bald to Ascenting and Australia

Today umithelogists recognize six general

\*See "Actarcina's Most Interesting Critical by by the France November to the Park Manager February, 1982

and from 17 to 22 living species and races.

of penguna

The 'little people" are distributed throughit the southern half of the glone, from Equator to pute, that they have never been found north of the earth's midniff

Contrary to linary legend, penguins do not live exclusively an kelectus. Only four species are known to touch the shores of Antonius. It is a large even cross such at the Antonius Co. la

Actually, the penguin is to write as in habitant of the subantaret. I ar there even have the temerity to be true or or of tropical in their habitats. These, however, are found largely by areas washed by cold currents in in the far south.

enguin twokerers are found on both coasts of South America and on the shores of South Africa. Large flocks exist in Australia and New Zealand, and trany Parific Islands, including the Gallipages, have penguat calo-

fishe.

Lenguins range in size from the powerful emperor, which sometimes towers four feet in height, to the hantamweight Endyptula minor of Australia, which measures a bare 15 or 16 inches. One unustually large emperor captured by members of Capt. Robert Falcon rottl's second polar especiation, weighed more than 90 pounds. Another large specimen boasted a girth of 5° makes just below the shoulders

It is a their far larger formul attire. I species of penguins look much thike. Barritg differences in size, the main distincts of are found in the columnian of their heads.

Johnny, or gentoo, penguina have coral-red bills and orange feet, and wear time was te nurses' caps (page 413). The emperor and king (pages 60% and 4(2) littingly week a gelden patch on either side of the neckt while the Actelie, in character as a comic, can be distinguished by the quaint white sings around his eyes (pages 423 and 428). The necklopper sports a yellow pompon over each eye (page 422), not the macasoni has geldenyellow eyelrows (page 424)

Sound successare helpful is some identitional tions. The king snows while while showing the Magell, we are talkass, owes its unsupplicatively alchaine to its braybke call; the latency trumpets like a tin born, or bisses.

when argered and while courting.

# Thick blubber Gerdlet Give Warmth

One writer speculates that the ghostlike braying of the jackass may explain the cultai has souls beard on dark nights by superstitions sail as

I'mike fish, which they rival as swimmers, programs are warm-blooded. The ability of the en peror by enduce some of the coldest temperatures on earth, while maintaining body



heats excreming 100 I are of the next remarkable fears of patural adaptation in the anamal king out. A sattle of blabber an inch thick is part of the every to this resistance to cold

Though they are perhaps the least birdlike of all feath red creatures, penetures still share me nabit common in to spanrows, character in take. When bedring comes they paid that take under their flippers, their nearest potation of the views.

their powerful and highly developes our groundscles, penguing can swim like scals and play leapfrog like purpoises. Juantites have need of acked swimming 30 feet a second of the contraction.



# Adolic Penguins Remp on the Below the Hot Month of Antaretica's Major Fights.

Bles Schall alternation of the entropy of Albana and any property of the first design of the first state of ment a securities "title man" did de la lacera e aplaca equipare en la come. De la te under the more than one admiration i en a major a

Free " 1 - 1 Pound, Britain tay Reduct ball of will about the arms of the arms of the first terms of t duction protein and the first of the first terminal transfer and the first transfer and tran . It is suit to a cold from a state to the character of the contract to the state of the contract of Read to the state of the parties of the stable to

al and any or many a many or men became a derestile and a contract of the transport state and a first them for and field and all five to go the first of these or a Promise the drop of the Evidor

Martin I also the contract of the contract of the Arrest Contract of the Arrest Contract of the Arrest of the Arre the given of cases, occasionally it spit is only the darkness. Be only a wolcome the consti-'cherry r 700-foot diff running hundred at the many Russ Is and the

lating the state of the contraction of the state of the s 1 1 1 Ha years 11 m2 - - - 1 - 2 - - 1

Penguins literally fly under water, using their powerful flippers for propulsion and their feet and this for radders (page 427).

On land, dippers become weapons of ski pulse for propelling or steering while tobuggating. One emperor was timed tobuggating on his belly at 10 miles an hear. Incidentally, on the antaratic ice, pengulus are seen most frequently on their stomm by (pages 406-7 and 420).

Most species can leap several feet out of water, often coming to a perfect two- or three-point landing on rocks or he. Adelies size up their potential landing field from a distance of 20 or 30 feet. Then, after a breath-taking cush under water, they shout up from the depths and land feet test on snow, or plop shown on well upholstered midrals on slippery rocks or ke.

# Penguin High-jump Champion

The emperor is high-jomp champion of penguinland, for he can put his 90 posteds or less, feet first, on a ledge five feet above the surface.

Another species, the rockhapper, shares the aignified mien of the empetor and king much of the time, but is sheer of medy when in a harry. Then he earns his nickname by moving in a series of jersy bounds, like a kangaroo of an old man with his ankles tied together.

One curious habit common to many kinds of penguins is that of swallowing peables. Old-time scalars and whalers believed that penguins used pet bles for ballast. They reported that jackass penguins ejected pebbles from their stomachs on emerging from water, and ingested a new lead just before plunging in again.

Capt. Junes Cook, on his renowned world emise, captured a king penguin whose stom ach contained a veritable geological museum

32 pebbles ranging in size from a pea to a bazelaut

One of the authors of this article, conithologist Makeolm Davis of the National Zoologica Park at Washington, D. C., discreted many perguins on a recent expedition and found stones similar to those lining the bottom of the Bay of Whales.

This strange pents eaching hand belowd, in a very practical way, in the discovery of Anteretic land. In January, 1840, the U.S. Exploring Expedition, commanded by Lt. Charles Wilkes, USN, captured an emperor enguin at sea. Its stomach contained a number of stones, which the scientists interpreted as evidence that land lay near by. This shortly was substantiated when the party sighted Attactic shores,\*

Lengums fred on crustacea known as keel.

and on cuttlefish and other sea food. The emperor is a fish cater and will consume trout in captivity. Davis has seen the sea colored ted for acres with the crustacea on which penguins feed. These crustacea follow the Peru (Hamboldt) Current, and several penguin species show common sense in duing the wise. The courses of the penguins' remarkable migrations are governed by their food samplies.

Penguins appear incapable of recognising their typical food outside its native element. Most newly captured penguins would starve unless force-fed. The empeter recently on exhibition at the Washington zoo would not pick up a troat from the ground of a tock, but had to have the fish placed in her much.

It is fortunate that Adulies and emperors are ena-food lowers, for vegetable life within the Antarctic Circle is ton scarce to support them. During its nonth-long pation of court-ship and incubation of eggs, the Adelie cars nothing but snow.

the birds enjoy a relatively high level of social organization. Living among tarm for many months, one observer found that the daily lives of these birds resemble the day-to-day histories of the two-legged runnmals they seem to mock in appearance. Weddings, highest divorces, trolies on the seashere—the gamust of hyman activities which make cossip and headlines in any small-town newspaper—these he found daplicated among the penguins.

# Courtemy Birds Call on Newcomer

Form the reception given the scientist by the "local lobes" resembled that necorded new residents in many small communities. Having pitched his tent, he was visited night and day by hundreds of turboss hinds. They lined up in a long queue in (tont of his dwelling to inspect the newcomet.

Most penguins set examples of mutital fidelity worthy of the most upright societies.
Monogomy seems to be the rule for the seaon, and the muting terenous, though very
colorial, appears quite discret. Davis has
seen penguins mating loth in the wild and in
captivity, but one omethologist who spent 10
seasons carefully studying the sexual behavior
of colories of yellow-cycl penguins on New
Zealand's South Island zever once observed
a pair mating.

In the courting process, a pebble is the jewel of several of the penguins. Like a cavaler presenting a priceless pearl to his heart's lesire. Sir Fenguin offers a rounded stone to

\*Sep \*American Discoverers of the Antan in Contiment \* ha May Cont A W George, National Geo-



# A Gentleman Bows to a Lady. Or Vice Versa? Not leven a Pengura Con Be Save

The state of the complete states of the stat

Include a little constant of the second constant of the consta

I this mine we as safe to this project to, the had proper total a open for the bushes and begate, and a copen to the related ipsof programs because of the State of the state of the copen to the state of the state

The appropriate and affile first a fact or a

The result of the little of the formation of the first of the second of the first of the second of the first of the second of th

# Lapanes Have No Hassing Problem

tractually Mrs. Emperor last big enter eag. Rearing children percent to be served at problem for the months of the egg by and op it in their terms of the egg by and op it in their terms of the egg by and or from your radial content to be the egg, and there exists a more than a last times.





# Little People in Dress Shirts Share Macquarie Island with Basking Elephant Seals

A looker that to make the about the state of the state of

A with the product of the second of the seco

The man are the second of the

Solution to the problem of the contract of the

Sule to the first the first terms of the first terms of the first terms.

The property of the property o

for a refer has discussive horself and the second of the formation of the second of th

The first of the f

Here the present who con-

1



2 T 11 Fd Fd F\* 2

# Aloof King Penguins Take a Bird were View of Photographer Laurd

Nigger 1 per service a to force and feet. While bread and see was side the first the first the stance to top, they tall as stress the .. if to proce the companion of the color factor and an alice to a tracer Aman tica, the mines fallets .. . . . . . the and the property of the pr

himself, with the bottoms of their transposwhere Nature has provided a thank develop of warm fat. This mode of broading assiis practiced by the king pengui-

barlier observers all have thought that conperor and empress alternate us buby suite). me staying on duty while the other rustles up a few fish in sume hear-by open chabitel m the ice.

# Mother Gen Vacation

According to an ornithidogest who ten for spent 10 weeks observing an unjecut book ery, however incubating is at a labor-sharing process at all. This observer writes that after Mrs. Empuror has a one her a sty as egg layer she returns to spen water, leaving to the male the 60-day ordeal of hatching. When the , bit k emerges, mother conces home to take over, and the male, who has not eater third g the entire two manths, gratefully goes off to determine

White rives the sitting, the egg must a protected with great care, to temperature to the antaritic andwinter may assertive to 77" F. Finally the clack Heaga through into the cold, cold world-

Once the emperor eggs are butched, smother laye is in arche, to bantarctic penguins sometimes settingly love their children to death

Since there is only one chick to every 10 or 12 adults, there is great stram ung for the poor little newconier, and a free-fur-all ensues whenever a woonester is left neattended.

In the savage competition for the province of baby-sitting, the young often are treated quite roughly. Sometimes they are killed in the process, being either builty manied or pushed into a crack, where-at least in the Antarctic—they freeze to death while the old lolks above them squal,ble and squawk for a chance to love them. Natural hazares, plus be struck as among adults, have led object ers to estimate that mortality a nong chicks sashich as 7 per lat

Unlike the Spaniar antarctic dwellers, other species, breading in ice-free lands, build nests or excavate burrows in the ground

A blind wisitor could easily blentaly a penguin rackery" his senses of hearing and smell would be quite as equate.

Dr. E. A. Wilson, who accompanied Capaon acutt on his Antarctic expeditions, reported that he sould sun Il Ross Island's Cupe sever es la la reportats from 30 milies to leeveror'

The balse of a large moltery is Lagraly appaling, continuing without break a ght and day. One observer akened the noise to "a gale howling through an autumn wood," while



\* 40 Ls (c)

# Nurse-capped Johany, Newtong on a Haystack, Trusts Her Broad to a Stranger

A down awkword hist, the Johns is a part to all paper ranks nonether at except of the part of the part

the little the babel of volues some-

Penguins mult standing about 1 a just at and ing about 1 a just a second and a second a second and a second a sec

I was stry on somethise little people, and the control of the second of

If and its property to the state of the source of the state of the sta

 the problem of the tent bear the total and the control of the tent of the control of th

# Penguin No Gourmet's Delight

As not, provide at kilos many down the service that a real their measurable excellent reports to including model by a last top which many a service many reservor to explore the term is a received a respective to the first top a resident to the resident and the resident to the first term is the service at the first term of the service and the resident to the first term of the first term of the service and the se

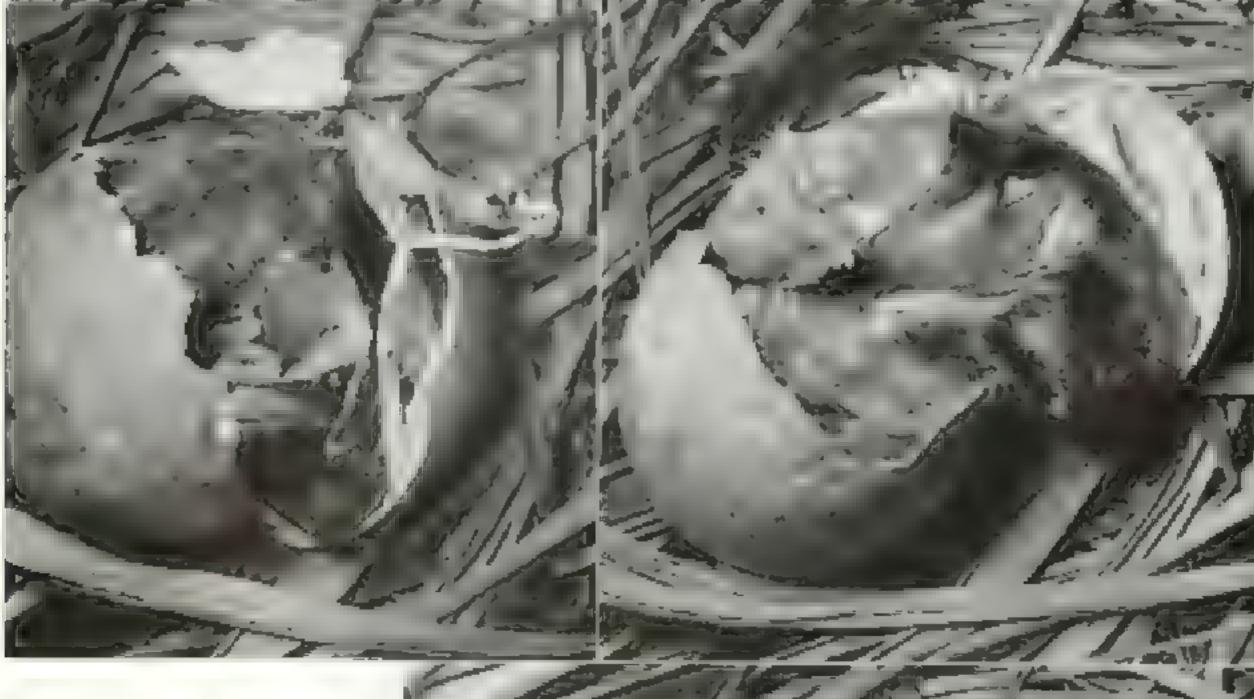
Carlenginia Marchini aginoss succidentals, orts fallosen a labor grip in a few las, in a confliction succidentals

Stilled Hawli on wing Drake a content to proper the Still of March I regular than the content of the latest to the same to be a still to the latest the same to same to same the same to same the same to same



# to the the Leasure of the Island and Islands Islands Islands





# Blis Jones Breaks the of Prisa

that the prime - It di is sti The Temporary Dec - 1 1 2 4 - 1 C 1 c the the the term A L Oct Oct te trial in a second 111-11 1 1,1 11 26 S. J. 325-1 (S.) ler e . . 211 The track the r Print I. Upstal " har are the , M to r r also part from the ( I) fr | (2.7) The same rater of





# \* Holl, in Popularies Frut in Discounsers of the Mart

11 1 10 Productional of the second of As If a section of the section of th









shoughts he are be to inspect a blindaters share the this of Whales I uppersor Penguses, Dunan by Carretts, A september 20 to the first of the first of



Mach- bowed Albut on Counts for Ottopière Betteren Waldert Feel

The Hallitte attended by the to the terms.



# Plantes Raised Amerily, Rocklingper Walks Off In a Hull

No second to the second to the

to a second constant to the property of the pr

served us (while-t they lasted) instead of

The thirty of the state of the

Spenier State Part of the latest

ver the renguin stew, componented of seawer that, and penguin meet, and famul

I and to be a superfield the fresh heart, kidin feed value, respectfully the fresh heart, kidnee, and liver. The objectionable oily flavor can be minimized by carefully removing blubber and blood. Then, when ground and wedseasoned, the meat is said to make a very . 15 permainlurger

I is the my offer's and the whale's the perguin's tanks have been sadly decimated of man. Penguins once were hunted for their or The rockhapper was a prime source of lamp of in olden day

When the pengui - first came ashere in the spring, crews of visiting schooners would drive

them into corrals by the thousands. Each perguin yielded about a part of oil, worth then about two still pass, suspence

four small schoolers at the Falkland Islands pressed out 50,703 gailous of penguin oil, killing perhaps half a million birds in the process. More to tently, one enterprising bird killer admitted destroying 70,000 penguins annually

Vill nigh this slaughter has been halted, on West Fulldard Island today the acht of a birg perguin is trarity. One legend says that all the remaining testdents were too eardown by a shepherd, who testdents of the raif of his but

On Macquarie Island south of New Zealand single colonies of king perguins totaling millions of lands once covered 36 to 20 to 20 and hours of the angle of entering of leaving the water at any hour

Then, for a time, oil hunters were permitted by law to destroy as many as 300,000 pengums a man, by on this island. I.

Shortly after 1900, the penguin population of Mary quarie Island had been reduced to the 17 of the 1900.

"He all and was made a will hite sanctuary in 1933 however, and this has made possible across a control of the pengint species (pages 410-11 and 418-19)

As pets, penguins leave something to be desired. Though they sometimes are times in Peru, the little people have not yet been widely accepted socially.

# Emporur a Bad Insurance Risk

With his bare hands, a Navy belicopter, and a flying tackle. Davis captured 31 emperors on his last trip to Antarctica, in 1948, and necessed in nursing eight of them home to Washington alive

But it's one thing to eatch an emperor, conanother to keep him beauthy. Though the Washington 200 penguins were kept in a special air-conditioned enclosure and fed fresh front, squid, and other delicacies, the last surviver died in 1951

The Antarctic is one of the most healthful spots on earth, if you don't tral the clin de. It is to a rold for germs or harmfal. firms: So the emperor at home asmilts dies of old age, in full dress, on or about his 35th Liriba at

The emperor wouldn't trade his climate for the Riviera. His remarkable. specialization of physical Steak fure and hidrit out in it natural for him to select the most southerly coast known, on the edge of the grat Le harrier as a writing ground and harsery. He chowes the depl. of antarctic winter for hese typically springtime activities, so that the voing may be fully pretotal to we ober the fulowing winter

The emperor is the only inhalitant of the frizen combinent who he mains there throughout the year. He lives in a silence so prefound that, when the wind is quit the countillast footsteps of men walking three mitetway can be heard with Party Line Harris and the sold in the air are virtually neknown. as are then thests."

TENTO TO SELECT OF THE PART OF rules of the Antarctic Continent. Except for an occasional explication party, in wanter the emperors have the continent's six million square makes of one almost entirely to themselves, though they live only on its fring This makes them rulers of one of the carth's burgest, highest partiels of real estate (average nititude 6 000 feet), overseers of an active volution, and body and ladies of a kingel on plenest as longe as the United States and k. arong combings.

# lesse Men No Match for Irate Bird.

The strength and pagnacity of emperats are legendary among explorers and whaters. Fig. men from a whaling ship once tried to over or me an emperor without larming it in a conthe bird, they attempted to part it a war at the ice, but were quality state of to all points of the compass by this feathered threshing machine

M last they secured two leather belts



An Adelia Cocks Inquisitive Type in Someone I sex Buschess

North Older Committee for the contract of the design of the contract of the design of the contract of the cont of principles If any or and Chaplenesque Walk are perguin traction

31 11 1 1 11 11 The state of the s A figure for the same of the first f eque whetherety or nawle upware like bourists inspection a shierraps

His astemishing ability to withstand the preamd the bird's body, and stood back, tak-The state of the s peror, Larsting both belts!

> the plant finally was a district liberal to abound the whater, where it promptly knowle. count the ship's dog with one blow of a 're r Plus ranged individual weighed 74 pounds.

Example of Interver, the en-, ecolor- is the so the fingen leman. Should two groups of emperors chance to meet, their siders ademaly how to one another, then mer their beaks ento their breasts and begin a larg discourse. To terminate the audience they raise their heads and describe great circles. with their beaks

Alan Villiers tells of the reception given a party of whalets by empered perguins who were gathered on the shure when the menistoria.

 See in the Nature of Greenbrury Macazine, "Our Navy Explores Attacetica." October, 1987, "Explor-II he Le See in Antazenca " October, 1985) and Consporer of Anticotten by Acres Assessed, 1940, all by Rear Allmust Rubin 1 1 3 2



# A The Channer Adelies Frelie with Members of Some villa Papaditant

I remain the Control of the state of the sta e read the set of the life at I sale that the control of the co

# v The Dignituries: Suge Marmon Congues. at a change to a Section

Note to the letter of the arrest man in the second of the secon the contract of the contract o the contract of the contract o





# A Michaeling Social Gall Grabs on Ade ic Lag, Pengnin Herk Scream at Protest

A south the first term to the state of at the first transfer of the state of the st ortors and by the month to be be the second of the sec A CAMP CAMP IN THE PARTY OF THE PARTY. to refer to the first telegraph of the last of the las MINERAL TO THE TOTAL CONTRACT OF THE STREET property of the state of the first ine land so to for the Paragraph and man bedwar is the first control or altires the total training to talk large a and it is the property of the first of the first ne exist early form the terms of a "n specifically along " \*

# Some Tangers I say by Funder

the first product of the following specimens of the first of the first

The topology of the wides to be a control to be a fit to be a fit

The Heat of the state of the st

Fig. 1 have we struck the second to the late of the second to th

half a proposition of the prince of the prin

The system of th

\* [the fed de nebel took in the section of but in the fear of the

Receding on the more of less answ-free headlands of the continent, the Adelies live a socialistic life. Nationalizing production and distribution, they hatch each other's eggs, care for one mother's chicks, and share the jah of feeding the young. Many other species do likewise.

The cocky and arrogant Adélie has three dangerous recemes: the sea le pard, or leopard seal, the killer whale, and the skua guil, which steals its eggs and attacks its young. Because nea and dags are relative strangers to bladomain, it apparently does not occur to the Adobe to fear them.

Rear Admiral Richard E. By the reports seeing one of these tiny powdies attacking a team of nine discs. The explorer plucked the little bird from the jaws of death with only seconds in spare, but the Adehe showed no gratitude. When the admiral had set him free at a safe distance, the pengum strutted off grandly, as much as to say, "I certainly showed those stupid does a thing or two!"

# Leopard Scal a Deadly Danger

But the Address respects and leasts the leopard scal, a vortelous hunter which larks under the ice shelves in wait for success penguins. Some of these great predators attain a length of 14 feet. In a sudden barst of speed, the leopard scal seizes its prey in the depths, where the hapless one has dived for food.

Hefore eating its catch, the seal sometimes mines the captured bird to the surface and tears it out of its skin by viclent, terriechko shaking. As skin and leathers float off before the wind, the trage little careass is gulped from in one mouthful.

One explorer, disserting a leopard seal, fund the remains of four king proguing a 140-pound ment. Another specimen cuttoired the bockes of 18 birds. To avoid this borrible end, Adélies will showe one another off an Ire shelf, hoping the unfortugate one will serve as a trial balloon. If nothing happens, the whole going follows him.

# Leap for Life from Killer Whales

Feared by all penguins, too, is the voracious killer whale, which croises in the sea near the edge of the Ice Barrier, ever on the alert to gulp down victims which might jump or fall into the water.

Groups of these whales also will those flocks of penguins beneath the surface in no effort to seize and divout them. When pursued by the killers, the penguins often achieve valety by leaping out of the water date the ice.

The male killer whole reaches a length of 30 feet and has about a dozen pairs of teeth three inches long in each jaw. Its body is slender with a pointed bead. It proys on a l

seal fe and has even been known to attack men on the edge of the ice. The killer some times will thenst its horrible head, with grinting pows of teeth, up out of the water to get a better look at the prey which it is trying to seize.

The South Polar skua gull, which has one of the most southerly ranges of any hird in the world, is the penenin's other great enemy. This first-enting scavenger plays the oute in penguin colonies, specializing in kidnappine habies and devouring eggs (page 425)

Toward man the Adelie is contemptions. One of these cocky little conschans was seen on an ocherg savagely solding a 17.000-ton ship making its way gingerly through the ite

Man Villors also recounts a wouldr's tale of observing two Adelies perched on a dead whale, squablidant violently because one has become

stepped on the other's feet:

"The two stood closely together, what the anaered one poured furth his wrath in an excited voice, holding his flippers straight down by his sides as if ready to bring them into action. The abused panging stood for a time with his mose high in the air, a most bored look in his eyes, a flipper raised across his body. Then he joined in the abuse, and both carned on together for about a quarter of an hour, when, apparently scentifing tired, they stalked haughtly to different ends of the whale on which they stood, and promptly went to sleep,"

# Branding Parent Sometimes Snowed In

these pengants are pesting, blazards after cover their cookertes completely. Being a good parent, the Adelie stays with its eggs and permits itself to be buried in the snow Many perish, while others like for weeks with only their beads pretracing (page 428).

But the parent who gets snowbound is in lack, for egg sitting is much desired among Adelies. The unfurturate mate who missed the blizzard is literally left out in the cold, with nathing to do but walk around on top of the snow crust, stooping occasionally to berate the bally eitter which is up to his or her neck in his or her work.

# Boffling Penguin Puzzles Remain

Bird experts long have regarded the penguin on the Nations on the mark tale are arrived and certainly as one of her most mysterious.

Itid the penguin ever fly? Are its presentday dippers merely vestigial wings, remnants of members once used for artial locamation? Some artitle-logists think that the penguin

\* See "Whalet Grinds of Lar Sea," by Remnagion Religing, National, Greenweith Managion Jahanty, 1940.



# King Ponguin, a Winged Schmarine, Surfaces for a Quies Breather.

and it bard to spot to winding per the liver in mabove, his black top blends with order to " A little on the white he is made and the second through after protects him from the t Streeting with tail leasters and for the contract of the serial dippers, he imperior through the way. If feel a second it is the first to the first trace profess was taken in a Bierbin ear

rought has been a prompt attending more the Antirotic region was a temperate र्रे मरहस्तवी विकास

Then, with the advent of the ire, the area in 11 in late waste. But the pengum a some singent rules la co rite to a property and terrent district

Other- contend that the water to the degene - e me riber . I d that the penguin new r dill manche , our cliga-

Apple 1, to be also at a management of the contract of the con dying through water as well as the protection about thing the air entirely in the or the conunder water

Many scientists held that the penguin is une of the most primitive of all hard

In an effort to throw further light on the question, three mentures of Scott's last expecti'm to the Amarctic anderto k what ore of hem called "the worst journey in the world." Dr. E. A. Wilson, official zoologist for the expedition, believed that a stary of the ceasif the emperor would establish links with the

1,451

for the latest market of toldies, Wisson an terminal production of historial and management THE CARL OF BUILDING BY A SHELL TO SEE A SHELL I to 12 death in the reason 4 1 time. or an area Buss Island, from the feet has to it hape truster sockery and because

# Precious Eggs Broken in Retreat

Phere, in the shadows of Mount Terrat I y sunfiched five egas and fled to avoid certain death in the larg of an approaching bliggare. Two of the eggs were broken as they made their peribus way back to their flimsy tert.

Months later the precious specimens were delivered to a scientist in England for analysis. But his study and not solve the puzzle of the penguin's evolutionary history. Even today the question is the set to quite the set

\* \* | \* | 100



# A Nesting Addie Warms Her Last in a Smirybons

All and the state of the state

The problem of the form of the particular of the

the page as I to regardents, and the drift-

. I live the entire army maneuvers,

wind that the property cathogone wind we be referred as the second

The many the street that it, in expending the little of the street of the little of the street of the little of the street of the little of th

1 - Let for the analysis one construction of the construction of t

# INDEA FOR JANUARY MURE, 1952, VOLUME READY

Index for his one C1. Figures—Fine 1952) of the Distribute Circulation Market of reference

# Far East's Turmoil Shakes the Globe

National Geographic Society's New Map Reflects Events That Change This Ancient Land and Bring It Nearer the West

the Far Fast is a backdrop for toric, term. It shows places and names that are mentioned almost daily in your own newspaper. In these lands on the other side of the globe, American history is being written as surely as it was at Phymoath Rock or Bunker Hill.\*

In the large Kores inset, on the right side of the map, there are names with a noticeably American ring. "Panch Bowl," "Heartbreak Ruge," and "Iron Triangle" are names given by American soldiers to places where they fought and ".

Off Korea's southern shore lies Koje Island (Koje 120), 150 square in les of green hills and pleasant bays. Until the Korean war, koje was occupied chiefly by persant (armers, who raised rice and lived peacefully in madwalled mushroom-shaped buts

Kole was chosen as the site of a United Nations camp for war prisoners; in the spring of 1952 it suddenly sprang to world promirence when the prisoners revolted and kid

In June, 1952, more than 500 American Air Force, Navy, and Marine planes bembed North Korean bydenetectors prints along the Yabi and Songchoot Rivers and at the Changim Reservoir. This raid, mounted from South Korean bases and from four II. S. amerait carriers, was the biggest mass air hombong since World War II. Its most appreciant target was the Stabo Reservoir plant, which lies only 1,000 yards from the Manchurian border and provides electric power for North Korean and provides electric power for North Korean and Manchurian bases.

A tiny vidure of thatched houses in westcentral Korea bears the name Panmunjom, which has been translated variously as "Guteway of the Ratts" and "lan with the Wooden shor," Whatever its English meaning, Panmunjota, as steme of Korean trace parless, has become abuast as tumbar to Americans as Appennetted or Versailles,

# "Far" East Is Near to U. S. Saldiers

A red stripe across the map of Korea from Panmanjons to Pooejas-aj marks the battle line of L'N and Communist troops as the trace talks dragged on. And many an American soldier who spent long months in those blenk and bloody hills will tell you that the distance from the West to the Far' Fast was really no further than be could shoot a rifle.

The Red solber in the other side of the faittle line may be a Charlese "valuateer."

His country, and some 450 million of his countrymen, came under the rule of a Convicuoust dictatorship in 1939-50. On the map a star at Perping, in mytheast China, marks the new Red enpital.

Conquerous are nothing new to being. As early as the 12th century a.e., when it was the frontier capital of the feudal state of Yea, I was a prize for Tatar invaders. The Great Wall of China, built later to hold mek the invaders, passes only 35 miles away. The wall failed in its mission, however, and when Marco I of a reached the city some 23 centuries later, he found it occupied by a Mongel conqueror, Kublai Khan,

# City of the Great Klian

Kubbai reluit the city on a magnificent cole and modestly named it Khanbabgh'tity of the Great Khan' So awed was Viarro Polo by the Khans vast gold and silver palace that he wrote: "No man on earth couble design anything superior to o

Another group of conspectors, the Manchus, settled in Leaving (then called licking—"Northern Capital") in 1844. For the next 250 years this computative handful of "foreigners" rated over unilions of Chinese. The Manchus, in turn, were overthrown by \$11 nese Nationalists in 1911-12

Today Pe ping's streets resound to marching feet of Rea troops and parading Communist Youth groups. Its purple-walled 'For lide on City,' which housed China's mightiest on erors, is now a park and museum fest oned with Communist propaganda posters. The new fore an invaders shuttle by plane between Priping and Mostow and speak Russian

A star at Taipei, on the island of hormosa, inducates the present becausarters of the Clause Republic. More than 8,000,000 people are now crowded on this small island. Evolution of these are recent immigrants, chiefly political refugees and Nationalist Chinese soldiers.

A dotted red line in the Parific Orean east of Formost encloses the Roman of the placed under Paited States advantage for the Japanese peace treaty of 1951.

\*Copies of he new Map of the Fat Last are detrituted at a supplement to the September, 1962 Issue of the Not towar Groundintie blocking. Members have a min a blummal rapper of this map (and all all standard maps published by The Someth by writing to the National Congruphs. Society. Washington 5-19. C. Prices in United States and elsewhere, 50g ep. 1 on paper 31 on Inheid; Indea, 25g. All remainances payable in U.S. funds. Postpund. The largest of these, Okinawa, was the scene of butter fighting in World War II. The United States is now spending millions of Johans to convert it into a permanent and powerful air and prey base—a "Peaci Harbor" on y 400 miles from Asia.

To the north, Japan raw governs itself again under a new constitution, and Adied occupation officers have moved out of the

luxurio.... Imperial Hotel in Tokyo.

The new treaty still perm to stationing of T. S. forces in Japan, however, and American our or naval install chang are ma nained at Fukroka, on Kyushu Island, and at Osaka, Nagova, Tokyo, Yosohama, Yokosuka, and Misseya, on the main island of Honshu.

### Ruilroads Grow in China

The shift of China from a free to a Communist nation bas Is wered the Iron Cuttain on all the mainland area on the I'm East map north of India, It was, Thailand, and Indochina, As always, information from behind the curtain is scarce and termidable. None-theless, certain recent activities in China and in the USSR can be shown on the map. Most rotable is radioad anthong.

Starting at Cunton, hear the center of China's suthern coast, a solid plack line marks the great Clinese trank sine leading north to Priping and beyond. For years this was probably the woral's most disrupted toil read. Chinese Communicate, Chinese Nationalists, and Japanese troops all took turns two from using it, Now, with the Japanese gine and the Nationalists in eyels, the Red

Another solid line on the roup, 320 tolles west of Canton has been called a danger pointed at the heart of Indochum. This mill toad, completed hastily in 1951, after the start of the Kerram war, connects the Chinese trunk line with Yungaing (Nanning), and the Indochina has let close to the 'possier keg' area where Cammunist guerrillas are hattling been h and Indochinese troops.

Still farther west, running generally north and south from Changking, alternating dashed and which lines show stages in another Communist project, the western Change trank

fine

Mach of the Information that does leak out of Communest Asia filters through the British colony of thong Kong, a partly open spaget on the bottom of China. Most of thong Kong proper states on an island only 32 males equate, though there is an "overdow" area of leaved land on the Kowloon Penins da.

north. To support this vast population.

largely unemployed, the colony must depend almost entirely on trade between China and the coloide world. But this trane, in 1951, tell off sharply. Not only did the Communist Universe government out down on purchases, but the UN stranged sales by placing an embargo on shapment of strategic war goods to China. As a result, some of the sig basiness houses recently have been closing them offices.

Atherest the marchand areas shown in the northern ball of the new har East map—thing. Tiket, Mongolia. Manchuria -have fallen under Communist swae, the island and penasular countries to the south have taken important strates toward political freed on huri as, Indochina, Indonesia, and the Padippines have all graduated from colonial or dependent status since World War II.

The young Indonesian Republic as a watery nation scattered across the bottom of the map on more than 3 000 islants. Here, as in much of the Far East, hanger and overpopulation are problems for the new government. Indonesia includes nearly 50,000,000 people. According to President Abaned Sakarna, the ountry's annual rate product on—its principal food source—runs about a souling tons a year short of a subsistence dist.

Let Indonesia's outlook is basically optimistic; it is rich in augat, spices, copta, tiu, oil, coal, and rubber. Despute great progress in the production of synthetic rubber, natural tribber is indispensable in the nuclern world. In the lower left hand corner of the map lies the area where most of the worlds natural tabler is grown and collected a cup at a time

### The Ancient East Still Glitters

Present americand man's universing struggle for Lood cannot wholly obscure the for hast's amount glories. Magnincent ratios dot the area form Boro solar and Angkor to Pripit g and Nikko's temples, shaded by tall cryptomeria trees. Rangon, shangkok, and I brown lend thrust their gibbed spires toward beaven. Across half the map, the Great Wall of China takes the fulls with giant strides.

Tanism, Confrainment, bundhism, Islam, Hinduism, Shintorsm, and Christianity have elevated their taulets, carved calm Bucchies, cassed their minatels, gapuras, tone, and steeples in teeming city and on lonely hill. The far East, land of treeter and money

changer, is also a land of prayer.

This strange, confusing area on the far side of the earth is a section of our world, a battle-field of our sous, a factor in our destiny. The Marco Polo wenders have become a part of our beritage. The Far East is as close as our ratio, our letters from the war front, our despect began for a free and peaceful ward.

### NATIONAL GEOGRAPHIC SOCIETY

SINTLENTH AND M STREETS NORTHWEST, WASHINGTON 9 D C.

Call Miller Call 1984 L. S. et. President. FOREAT V. FLASHNOR, Transitur

HELLIGHER F. 1002 KINDON, Associated Leons core 15513.8.1 Entitle 8. Chapter has, however, a operation. A 1 - A 4 S of of Mo. I Milettly, harder burnings, these with Clone across 41.3 L. Ph.C. IC. Abuse at 1 to the Preparent.

JOHN ORIVING LA GORO E, A res Pres Land The OMEAN W. Mickey Mr. Secondary

VI 2 N N | 180 | W = 1 | 3 | 180 | V = 1 | 1 | 180 | V = 1 311 1 1 1 1 31 PALNE Amortant beneviary EV d 1 J M. 12 t MSS1N, Assurant Security IN HISTOR AND LE AN HART Seem not a Marile will be the

### BOARD OF TRUSTEES

I was I Make the Compared the Army kinnin orly boursel my ad I have as

Church E. LCMAY George J. S. Le house, Comprises one Stratege by Congrat t

Links & A. Libron S. Charman of the Board 12 112 1 1 1

Frank J. Phillips. THE BUT DOWN AREA IN THE Secondary in 18 parel

И. Ламуновачи УГличова 

E 13500 A 114 NOUN. any year and his turnling

Crosses R A r tigation also be

FRANKLIN L. FIN ICE alle strettede danker. Notice that George product Adaptithes

I true to be a The state of the s la man de la contraction de 21 1 2 1 2 1 1 1 1 1 4 4 I destrict National Company Consisting for females 141 1 2 4 2 1 to de to Juan T. Taula and the same of the same of the same of Brand Brand The state of the s

David Falleging gran to the state of L. S. I martnant of Auton 10 Account to March 1 Strike Labels 2 of the Beatmeted to ournature

1 150 11 1 1 1 1 1 1 5 5 1 1 The best of the state of the st National Community date Assignation

N | | 1 | | 1 | | 1 | | 1 | | 1 | | 1 | | 1 | | 1 | | 1 | | 1 | | 1 | | 1 | | 1 | | 1 | | 1 | | 1 | | 1 | | 1 | | 1 | | 1 | | 1 | | 1 | | 1 | | 1 | | 1 | | 1 | | 1 | | 1 | | 1 | | 1 | | 1 | | 1 | | 1 | | 1 | | 1 | | 1 | | 1 | | 1 | | 1 | | 1 | | 1 | | 1 | | 1 | | 1 | | 1 | | 1 | | 1 | | 1 | | 1 | | 1 | | 1 | | 1 | | 1 | | 1 | | 1 | | 1 | | 1 | | 1 | | 1 | | 1 | | 1 | | 1 | | 1 | | 1 | | 1 | | 1 | | 1 | | 1 | | 1 | | 1 | | 1 | | 1 | | 1 | | 1 | | 1 | | 1 | | 1 | | 1 | | 1 | | 1 | | 1 | | 1 | | 1 | | 1 | | 1 | | 1 | | 1 | | 1 | | 1 | | 1 | | 1 | | 1 | | 1 | | 1 | | 1 | | 1 | | 1 | | 1 | | 1 | | 1 | | 1 | | 1 | | 1 | | 1 | | 1 | | 1 | | 1 | | 1 | | 1 | | 1 | | 1 | | 1 | | 1 | | 1 | | 1 | | 1 | | 1 | | 1 | | 1 | | 1 | | 1 | | 1 | | 1 | | 1 | | 1 | | 1 | | 1 | | 1 | | 1 | | 1 | | 1 | | 1 | | 1 | | 1 | | 1 | | 1 | | 1 | | 1 | | 1 | | 1 | | 1 | | 1 | | 1 | | 1 | | 1 | | 1 | | 1 | | 1 | | 1 | | 1 | | 1 | | 1 | | 1 | | 1 | | 1 | | 1 | | 1 | | 1 | | 1 | | 1 | | 1 | | 1 | | 1 | | 1 | | 1 | | 1 | | 1 | | 1 | | 1 | | 1 | | 1 | | 1 | | 1 | | 1 | | 1 | | 1 | | 1 | | 1 | | 1 | | 1 | | 1 | | 1 | | 1 | | 1 | | 1 | | 1 | | 1 | | 1 | | 1 | | 1 | | 1 | | 1 | | 1 | | 1 | | 1 | | 1 | | 1 | | 1 | | 1 | | 1 | | 1 | | 1 | | 1 | | 1 | | 1 | | 1 | | 1 | | 1 | | 1 | | 1 | | 1 | | 1 | | 1 | | 1 | | 1 | | 1 | | 1 | | 1 | | 1 | | 1 | | 1 | | 1 | | 1 | | 1 | | 1 | | 1 | | 1 | | 1 | | 1 | | 1 | | 1 | | 1 | | 1 | | 1 | | 1 | | 1 | | 1 | | 1 | | 1 | | 1 | | 1 | | 1 | | 1 | | 1 | | 1 | | 1 | | 1 | | 1 | | 1 | | 1 | | 1 | | 1 | | 1 | | 1 | | 1 | | 1 | | 1 | | 1 | | 1 | | 1 | | 1 | | 1 | | 1 | | 1 | | 1 | | 1 | | 1 | | 1 | | 1 | | 1 | | 1 | | 1 | | 1 | | 1 | | 1 | | 1 | | 1 | | 1 | | 1 | | 1 | | 1 | | 1 | | 1 | | 1 | | 1 | | 1 | | 1 | | 1 | | 1 | | 1 | | 1 | | 1 | | 1 | | 1 | | 1 | | 1 | | 1 | | 1 | | 1 | | 1 | | 1 | | 1 | | 1 | | 1 | | 1 | | 1 | | 1 | | 1 | | 1 | | 1 | | 1 | | 1 | | 1 | | 1 | | 1 | | 1 | | 1 | | 1 | | 1 | | 1 | | 1 | | 1 | | 1 | | 1 | | 1 | | 1 | | 1 | | 1 | | 1 | | 1 | | 1 | | 1 | | 1 | | 1 | | 1 | | 1 | | 1 | | 1 | | 1 | | 1 | | Corne from and Director Corners and First 1 19 ma have extra Chalcanan on the Brand

L. O Children 1 . . . manufacture of the same of Francis L. Napar Challernan of the Boars Southern stallman and edge. Jones Othern Late merbearing by an of the Matana. 1111

MORT S WED Vice Administration Company 47 5 Navy Is tilled From back

Britis on W. Mr. K. W.

### OF SANIZED FOR THE INCREASE AND INTUSION OF GROCKAPHIC KNOWLYDILL

For correction have progressive for which it may founded on each force vision made that Nationals has graphic Somely published on The No period the congress on the agreet or spound to be the property to more the

April has noted as some group to any observery. For material The 5 cc B

Lip add tiges to the editorial unal tembrers; for engaging major namely being marks. The Society has resonanced proced from 1 🔍 e another except take were of which is pared grain of firm at noting the stell of the State is only see by the

The For dy's noted a extenditions have jumbed footh the Instart. It arrests of the mathematers, Physic States for surgers. hy did a the or the control of the c Last from a fit there accounted years.

In Alexand The Sweets and the Sustanger Institution, January 14, 1959, prepriet the isless with of man in tag Appendix for with a we have a late of language of about a week ground in Suggest between the all to which a nine Societies here is did not be doubted the well-treet. It uples notes by 200 1 to -1 dt | 1d / 1 2 61 11 1 1 6 5 1

the male of the service of the servi a man, it consists of figure and its thin we shall a title to receive of TR Pho fort. I was a fewer We become usual Come Credit A. Amders in forescaphe, and a great a great in a sort of second title at agreement and a mained rescale of extraordigacy gateto the dashler associated to the dashlers of garrent may were

lauto-bad to 1610 by The Society in everyneration septe the 'alconour's Roservan a constitute of Technologies. That project high the ourse only hears for printed any the same reading factors and soft protected protection for algebraic and for observaconversal laster state or this.

and differ 1" is 29. In the next several expedition in the second the several artiple on a hydride also are from throng to the The Market of the second of th

Materials at 1901 Paper and the complete capital capit In the It of text of the grant If you have by the second of t tills a first manager has the has the even a management and the second and a second and Control Libraria of the priority bacterial Party of Early time.

Union of the Whitelian Largery and the two stack granted speciency waste. arrive the pulled them the Base assert the big the and Yukon by throughout Wine cours whale expecting for The for our sty and the tion of a field to

### EXECUTIVE STAFF OF NATIONAL GEOGRAPHIC MAGAZINE

### GILBERT GROSVENOR, EDITOR JOHN OLIVER LA GORCE, ANDONOTE EMPORE

the second of their 5 11.5 (5 ) ( ) 5 ) 6 1 ( 1 ( 2 | 1 101 Len A. Jeografi . . . torogram W. Board. Assures II June M. pallocated of the feet to be for Honeyer Limited Carps age of the second F 1 1 1 1 1 PER ART P. June 4 team for borner da Blackwaller J. E. Bertell. Francisco I I am a state of the 1 1 12 1 15 19 1 19 1 y5 | y x x x 11 71, 1, 4 1 4

from the first

113 1 1 Anna al anna 4 defearminher Marf Number British Lat 4 and CHARLES L. RIGGE UN think it is then the Located to I Singues and a A programme and the second Large Large Append to - -14 907 534-527 at the factor ELAL PH LIBER Virtual Services Joseph B. Hours La to the state of the

F 4 A geleuffe un barg. the second secon THE R. LEWIS CO., LANSING and the break strade. - 1x - 4 the term of the latter than the The district terms 11 1 1 1 1 1 1 1 1 Appear M.B. (Library) 7 7 1 11 1 14 , 2 14 the same of the same 4 4 The second of the second 1 ----

the second of the second A Samuel Company 10 CARTER & WERPH 1 1 Total I 1 2 h 4/5/1/ 38 shipping

From Lifere Descript M. Property



SPACE — WITHOUT WASTE, Like the medean operate ent, Lincoln makes pendated as of about social of make, achieving are out to consess and freedom. Bo, with the constant of the consess and freedom. Bo, with the constant of th



# in LINCOLN

modern living reaches new heights



The content of problem of the content of the conten

from a to part to the first terms to provide a



## They left us sitting pretty

... pretty near "cleaned out" of our most valuable possessions

(Topocal of what happean summer here every days)

"So it can't happen to you?

"Well, that's what are thought . . . until two thags dropped in on us one right. They bound and gagged us, and then in their own sweet time stripped our home of silverwore, jewelry, furs, and \$95 in each.

"All tobl, we lost about \$2500, And, believe me, that here was hard to take."

There may be a thick in your fature, too.

Just in case there is, a two meelf like (ford) the list uses and (ture, b. Phef) (frequence at once.)

You pay only a few cents a day. And night and day, 3r in ays a very vasioe postected about 1 los as from their large mild up, and a los forms of thievery.

Don't wait, bee your Hartford Accobent and Indemnity Agent or your insurance broker. Or write us today for a free copy of "Simple Eacts about Hartford Residence and Outside Theft Insurance."

Year in and year out you'll do well with the

### Hartford

Hartford Live Stock Insurance Company \* Burtford Accelerated and Index note Company

Hartford Live Stock Insurance Company \* Hartford 15 Commenced



From New York Control of the Control

the cour daughter's welding . . . paper for your personal and business letters . . . paper for currency and securities . . . paper for the plan by which industry expands to meet the needs of production to our way of life and its defense—all these and papers for many other specialized needs and uses come from the Crane mills. All are made from the charest of all materials—rotton and linea fibres. All reveal in every enset the craft of papermakings the harmonizing of land and machine, the joining of rarly skills and modern method. No other papers serve so many important pur poses with such distinction or afford you so much pleasure and proce in their use as Crane's Fine Papers.



### PUT A CAR FROM HERTZ IN YOUR VACATION PLANS...

SEE MORE ... DO MORE ...

# appl much more Tun,

Appendix regime that makes in a li-The elect proper was used to ched en extra charges. All les water · Burting was a reasonable for both Burting and I has a section with der many of the first white spirit and they have been a first of Mindly topically, handles despited by the opposite the state.

Save on your vacation trip

PROPERTY PROPERTY AND ADDRESS OF THE WALLS.

The property of the Control of the C

• Transporter on Forty Commences (Agent year pulse) · 1885 mint 2) sigh through him that training



No marges of the contract the court of the court of cen mound on hirs ed day and telakatson. If you wast to be " I a rep ly word stol rom rent a new car strong Pleans. to desert i singe (averif ) ques, Or, reserve one to drive as COME COME AND STREET STREET I have due that if we vive a sat talk at more then Just OC T D 16 (D Dyn F 5192 ) FO

RENT A NEW CAR FROM HERTZ

... drive it as your own

Lookest Mountain, but out of Chartenoogo, rich in historica fore and natural becaty ... a favores hering ground of the Cherokees ... only one of the many interesthig spects in this crees which you can mosky smock in the car you runt from Hartz,

FOR PLEASURE OR BUSINESS ...

# Enjoy these many HERTZ-SERVICE advantages

RENT FROM HERTZ AS EASY AS A B.C.... A. Go to your Harts station. B. Show your driver's liceme and idenhty yourself. C. Step into the cot and go

PRIVATE CAR PLEASURE . . You drive a new Chestolet or other fine car in splended could flan and as private as your own. Rent any hour way lime, for an hour, day, week, of as long as you walk

RESERVATIONS ... Herry Driv Ur-Self service is graffable in over 500 pries and report throughout the United States, Canada, Great Britain, Mexico, Hawaii and Alaska: To be sure of a car when you need it, make a reservation in advance by calling your local Hartz station. They will reserve a car for use locally ... or at the Herte station in your destination sity.

If you prefer-and you have the cornect station name.

and address-write, wite or phone your reservation direct to your destingtion city. If there is no Hertz station in your home lowe at the present time, request your Hertz resereation through the Hertz Ro i-Auto or Plane-Auto Travel flow at a special or cirling reservation affice or your travel agency, Insut on Helfs were ce-

NOW! CHARGE CARDS ... Hetts International Charge Cords are issued to well cated byspess firms and melividual) who quality. The card serves as identification, alimmales depoul regulaments, and provides credit printeger if desired, Air Travel Cord and Root Credit Cord holders while extended these same courtexes of all Mertz stations.

FOR ADDITIONAL INFORMATION . . . Coll your local Hertz station, or write Hostz Ons-Us-Self System, Inc., Dept. 892, 218 South Wobosh Avenue, Chicogo 4, Illinois.



Look in your telephone deactory under "H" for your local Hertz station

TOU CAN BENT A NEW CAR FROM HERTZ AS EASY AS





### Waiting for you...in the SOUTH!

THE "WELCOMP MAX" awaiting industries here in the South is made of many things—

It is made of rich natural resources and advantages, adequate power and fuel, and dependable, efficient transportation facilities.

It is made of competent, efficient, willing-to-work manpower, and large and fast-capanding consumer markets, eager and able to buy manufactured products of every kind—

Those all, at is made of the warm frandliness that welcomes new neighbors with the traditional loopitality of the South.

"Look Ahrod Look Smith!"



SAMPLING II. C.

Herry A. Dr. Butto

The Southern Serves the South .



### These...may become part of you

Bones, tissues, and even complex joints are now being strengthened or replaced with "friendly" and als

Everyone prefers the common less than that the grave may be the season most provided to the contract mass.

### DOCTORS NEEDED "FRIENDLY" MATERIALS

read and restures or weakened parts of the leafe, found that certain allower the arctice of the to feel, and leave. There are to a perturb or hard to extend the feel and leave.

as him is a second to the strong, enduring

to other metals are used pleased to be present to be sent and as "screen to be a bound or recu

### UCC SERVES MEDICINE AND INDUSTRY

Creating and producing more than 30 different above that go into mends to seeme medicate and peacey every field of militairs to one of the matrix apportant jobs of the per local Latina Carlo to

### UNION CARBIDE

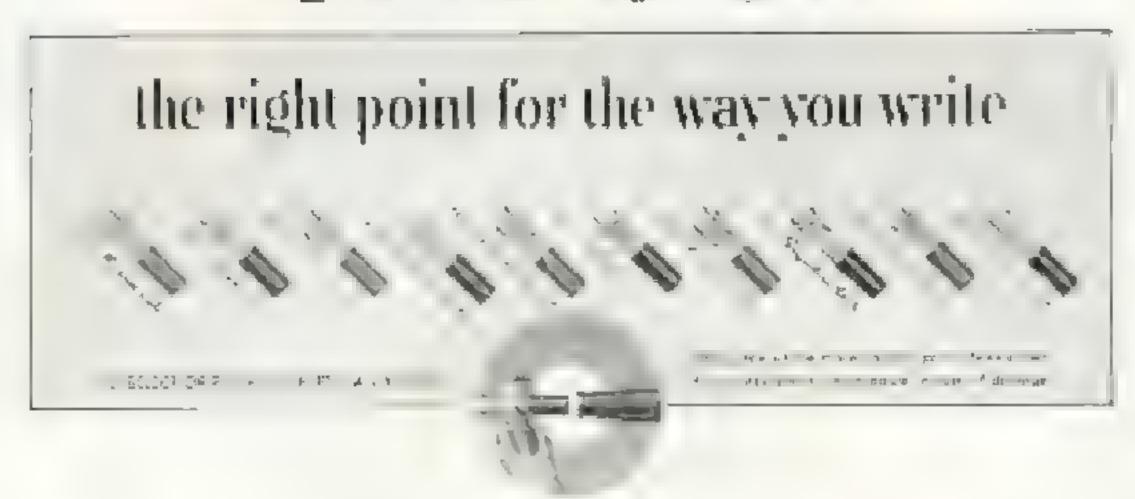
SERVICE AND ACT OF THE STREET, IN THE

- 14 174 Pendesmark of Pendingtons Allowing Earth arm. Chemicals Consequented Printers Income. ...

The Company of the second Metals - Highway Strictly Moves - National Carbons - Aldrews E.e. - 1818 of Figs | Part of Barriers - Barriers Andre and Arrest Part of Part of the Arraba - I had the min Thirk A. (186).

1 . . .

# CHOOSE



### FIT it into the Esterbrook pen you like best



# Esterbrook

FOUNTAIN PEN

ESTERBROOK - AMERICA'S PEN NAME SINCE 1858



# WHAT'S THE BEAUTY SECRET OF CHRYSLER-BUILT CARS?

A car need not be four wheels, a but such a resume lamped in an above that decisions place to be a something on the month for a form one is been better models for the form.

This is the production of the transfer of the order. It has been been and three or

A place woruged to the leading of the soft of the property of the property of the property of the property of the soft of the

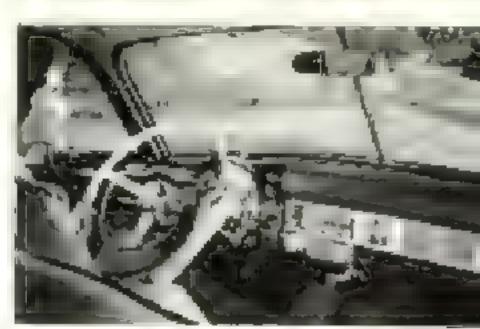
This approach to design produces cars which are rightly pro-

### CHRYSLER CORPORATION engineers and builds

PLYMOUTH, DODGE DE SOTO, CHRYSLER CARS & DODGE TRUCKS

Chrysler Mapon & coductive Enginen - Olivia Principed Maint Principels + Mapon Party & Appropries

Appropriate Anna See Anna Community Part Constant in Continuent Community and the



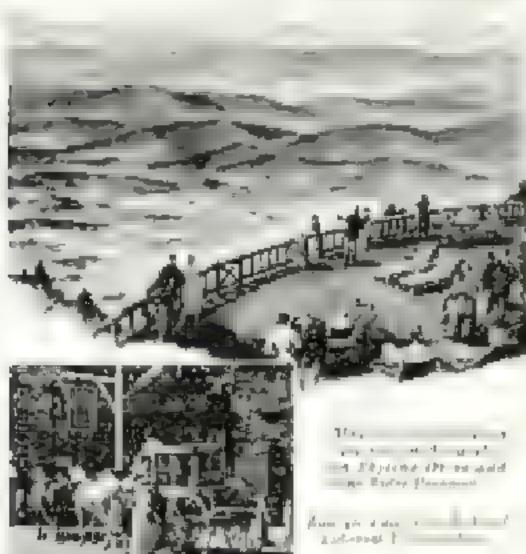
HEAUTY AND VISHLITY, Note I was true I as the thinks In the second to the second terms of the second terms



SEAUTY AND COMFORT \* 1: 11 ! ...

Lodge gar, a pliff of a company to be a comp





Every corner of Virginia is now a chimina pageanity of color from get geous mountain being it into aphlorely valleys— so the gooden manager are shore. Here a a hed ours parade of all the heriday beauty to a vertice and of play that and bracing sea kreater. Miles of and for contrathing if you want to "take it may be not a transport to the repeatitude of the here. Here the for a trap is not to be repeatituded. Here the for a trap is not to be repeatituded. Here the for a trap is not to be repeatituded. Here the accommendations to be a part of the page of

(while in ) Inginio to sure to see ....

- -3 - 0. 1 | v c
- a same to the transfer of the same to the

Harris Comment to a retain to the comment

- + 31 sp > 1 (c) c
- 12 31 91533 5 5

L KR Strain Tell

Manual Equation of August 192 also



# Jreland... LAND OF MAGIC!

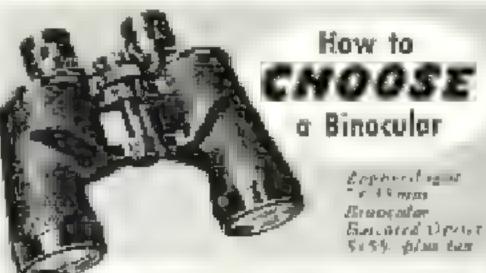
There's magners the beginning to the principal of a transfer with the principal of the prin

From the large of the of the many of the later of the lat



33 East 30th Street, New York 37, N. 7. Telephone, Eldorada 3,4002

ward in the paster The Muliana Tuess Fabruse Ingeres too enough



Qualities of charety sharpease and broken the spin and an arme of second control of the spin and an arme of any second be accorded by enter a design and meets to hand a some Thanks why may be not be a factor of the parent A forms and before the spin less and bancolar and for \$2.5 are tree by kins. Binocular of the \$2.5 are tree by kins. Binocular and the \$2.5 are tree by kins.





### TIPS ON TRAVEL

by BRADLLY WESTON

World traveler, Author and Travel Cohemnet

### YOU GAY SAIL INTO CENTRAL EUROPE (WELL, NEARLY) ON THE SOUTHWRY ROUTE OPENED BY HERCULES



I humber of moone age, leng before digaratte packages danced on a screen in the living to on and beaus rame got and washed and frame has an fee likely a recentain range con

to as 6-braitar precess to the tip of North Africa,
- to post the most 4 bond strong man, on ne of
Herentes, according to usually informer
- to seed the mountains apart, permitting to
Mediterranean to swish around with the Atlant c

the extense of real estate much and so the fitter strate of the strate of the fitter of the contract of the strate of the state of the

### Counts and Konsons

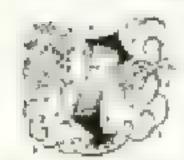


The southern shore of the Carlinent is a handy place to delatik for anyone backing to 1d about in Southern brance—or for anyone bound for Italy Switzerland, Austria and the

tonaist belt or formans

Stepping Ashere at better, one can zip up through Mohan and have cocktails on the grand terrace of the Vella d'hote by the very edge of Luke Coron Courts and Kansatte mix in equal quantumes, and the better-dressed tothes wouldn't be exaght dead without a expersite holder half a foot long.

### Along the Riva Vela



Over on the prighboring lake, the Swise pleasure town of Lagano has a ring of heter sertounding the water. Dress only Junishers, Horentines and Lonboners walk studen the durie of

the chestnat havesen the Riva bela, and in the late afternoon everyone pathets at the rafé tables set

up in the Praisa Beatonico to spall einner appe-

### North to Bayaria



Or, debarking at Geson, yes can step north through St. Moear step north through St. Moear and the Brenner Pass to the A sertion town of Innebrack, a Coth e settlement by the back of the Lan, backing down its

the valleys of Tyzal. Eighty-five unless farther and you're in Munich, the capital of Bavaria.

In Baratia, men went filnek left hate with legight groun hands or sometimes firmy mainters with prent lemen directs. Changes are you'll also see them in tederhouse, which are short leather pants a an with leather braces and I my white stacking bear at hand are Obsermmergan and Commisch l'artenaire len and Ecomon-the-Topenn bear to mention surpe travers and steaming, such a mountains of samethrant.

### Hercuses and the Sun-Liners



The San-Liners Independence and Constitution that ply the Mediterranean also call at the local of Causes on to his at Reviews. From there, play your way left to the Cold Hotel at

Also sading between the Fillage of Hereales are the modern Four Aces, a quarter of trim, one-class presenger ships that tour a meanly all the bases on the Mediterranean

### See your Travel Agent

It you're bound for the heart of Europe, you can at sheep, not and dance your war to she in the fact of one of these wir rouditioned conselling that said the pentile Sun-Lane to Europe, They're neglity popular stops, so it's a good idea to make bout teservations well in advance. Talk it over with your Travel Agent today

Published as a travel service by

### AMERICAN EXPORT LINES

# Retired couples winter in Florida sunshine with MOBILE HOMES

It has twent. Our course with the Massemble been because the word L. Thomas hack seem enough on the cult by the North week seems to be produced. In any his water by water as man water there to remain the water test of the water to be remained to the course of doors on I made to he in the leave Their TOMA and it made made of the

possible Now they winter armid waving parties the autiful Parelev's Trader Purk in St. Patophory Phorida Here actions and characteristic provide event to a retrict of apericular week forespecifical carries in a regulation, provide the parties of carries with the provide and provide a result with clab countries of the parties of the parties for a wide variety of specific and entertuminent.



FRIENDS DROP BY TO PROPOSE A FISHING TRIP. The Thomas' was mere a the peress in the looks are entered to the peress in the looks are the peress to the peres

"MY MODIEN KITCHER MARIS MEALS EAST TO PREPARE," on very life, "Thought a to the personal and according to the personal and a construction of the companion of





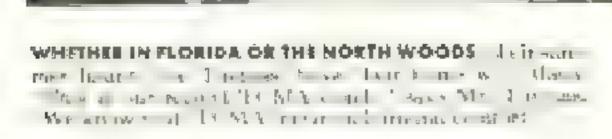
# TRAILERSTS ENJOY A BEACH PARTY The endy was with their live that the need office would read the majority has the ends I may as the prevaled beautically a play our two from your door!

### Priced from \$2000 to \$6000

a hadage furnishings, these new T ( hild tender consider either attractives traditional materials) priced homes, per entry on, by the tracels of rettred couples A TCACA and the results of appears and M and attractive tracels of appears and M and attractive tracels of a tracels of a tracel of the office of a tracel of the appearance of

### FREE NEW BOOK

niped Morral on or Per now of Morral on Co. Aprel Morral of Co. Cred Opera ship Common co.







"Why, Deddy? Why did you lose our vacation money? Why didn't you carry American Espress Travelers Cheques?" Put your right foot forward —
license you have each trap protect
and and local and 100% sale
that is a part of protect
that is a part of part of a
formal and a part of part of
the part of the part of a
formal and a part of
the part of the p

Institution American Express Trayelers Chaques of any Bank a share principal Mastern knows 8 1822.

Inspires others Only 755 per \$186

100% SAFE-EASIEST TO CASH

# AMERICAN EXPRESS TRAVELERS CHEQUES

EXPRESS YOUR PROFERENCE FOR THE BEST!



### FOR LIGHTHEARTED LIVING

Radman Trailer Co., 6 Bridge St., Almo, Mich.





# Wakeup

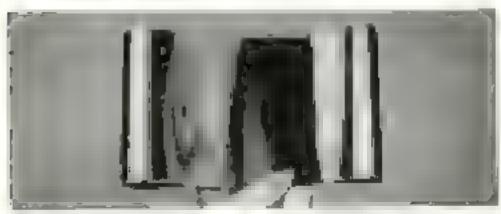
# TO THIS WONDERFUL DICTATING MACHINE



You'll rub your eyes with assomalianeds when you were such to the forest and not to a creatil electronic distantant machine set and a confidence.

You have, no speaking table . . . nothing oldfar broked about TIME MASTER! You cred a the buy mussophone or your broke Controls are will in fuger reach.

to the tree of a leaterbrack and records on



terr dans sold terrosphale malann-

be a lip at a the religion of some interover company disclination lear. And ness the trabetts are at inexpensive that you use then only once. They may be transcribed, maded or filed

So new out definent and better is T Managers on the server and leaders in hardness and the probes and the probes one have turned to be a Lie - and Dienarus, such topolisment person Junes on the get along without in maxima distance. But they don't - once there's a tree! TMR MASTER!

What are you waiting for? The coupon will bring you full distails promptly!



.5 testes...

### DICTAPHONE

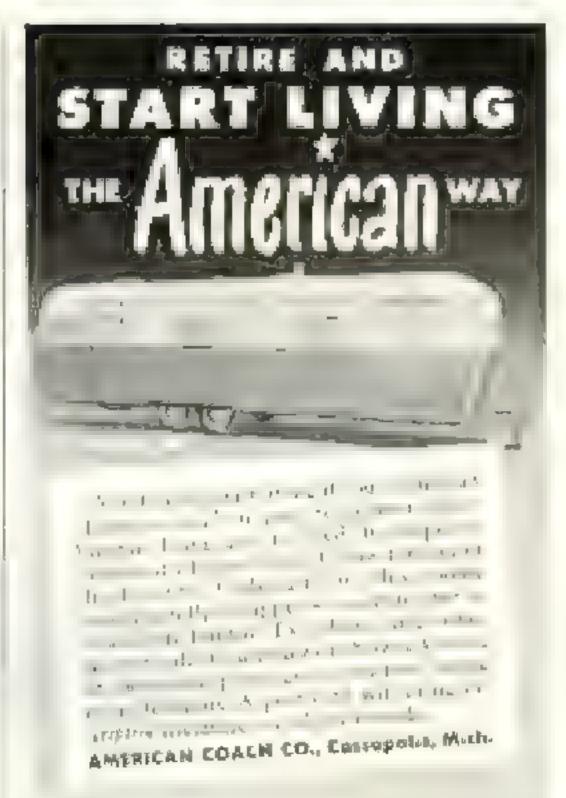
THE GREATEST NAME IN DICEATION
TIME-MASTER-The Modern Way to Dicinin

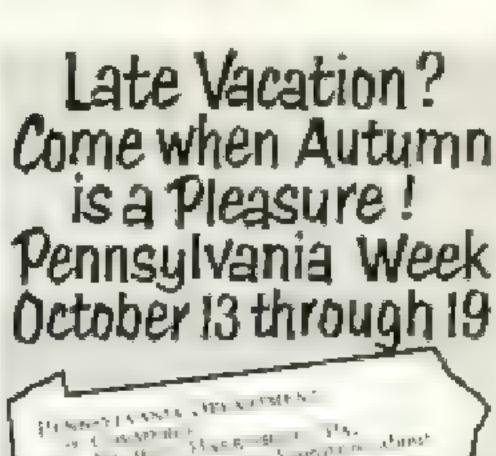
 Diptyphone for a senseterm dadedutth of the appropriations.

The transfer of the property o	7.8.3	-
Et - 4 Hardike fir		
Your Name		
Competity		
Stepet Address		

City & Zuon-





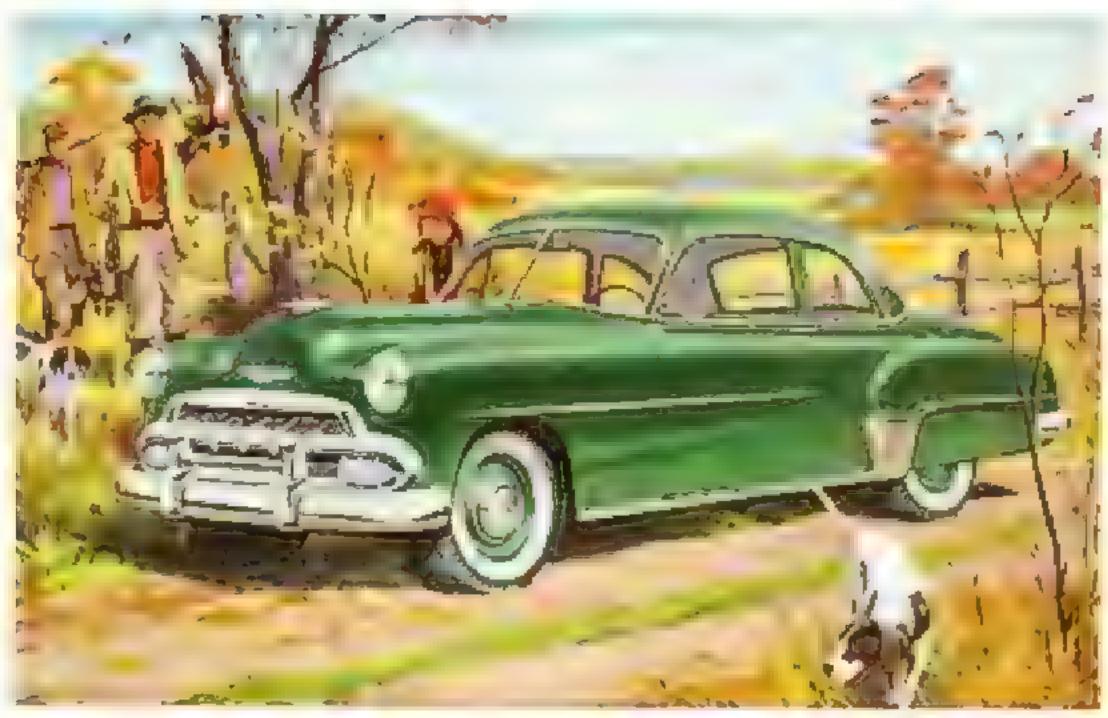


A The second of the second of

## Pennsylvania

DEPARTMENT OF COMMERCE

AND ROLL SHALL CALL SAMPLES OF THE PARTY OF



### New discover the only important difference between the rolet and high-priced cars . . .



The only happened difference is in the root was the fronter. रता एक वेश अन्य मान् 111 -1 - 1 1 -son' in the c True you have a

ner data a calle THE THE REPORT OF THE PARTY OF and the three highly discover sect and rift that the triplet shares the districtions, quality and era remonship of Bacy by I sher. with some o. America's meet roally ones.

Find out that rew Centerpoint Proper makes Cherrolet

compressingly attend to in performing re-. , is not be of vibration Al 200 1 10 4

Find the Land Control of the Control HOLE II SEPTEMBER the third and and well and a report mand early to the 1.1. 2.35

So your Cheyrolet dear our discover that the big dil o between the lending on 1 CHECK IS ECCUPION OF STATE Charmet is a compact one man bod "A" or a second when the solution is a us Cherralet Housen of General Meters, Detroit 2, Mi bycan,

Form of the destroy ALT THE SHIP OF THE



the second secon 11 11/1/1 ( 1 ) 1 trufulty to be



Y product of the second 10 to 1 and 1 -The same of the same of the same I was a second of a



and the state of t TO the of cuttor Up.

1 1 1 1 1 1 1 1 1 1 1 1

a and the firm

MORE PEOPLE BUY CHEVIOLETS THAN ANY OTHER CARL



The Only Fore Chas PRICED SO LOW!





SIC to Approximate Ave. Constant 4	
President day by a service to a	da en "Sign ref ( n. e.
4686	
A property	
4 T.   4 10	TA15



It at tac 7 d

HERCH AS A HAWK, a part of how imported in an amazing chose-up from New 105 to 105 to 1011 and the Property of 111 CCHAIR 1940 PHOTEL SEAPPLE and fascing ting not reveal archete of the big law-rid. Handson the bounds 325 pages 27 to 15 57.50 in L. S. & Part, elsewing, prospend.

NATIONAL GEOGRAPHIC SOCIETY Deat. F.J. Washington S. D. C.

# Summer lingers long in beautiful, sunny SAN DIEGO

Sin ter his rest territorial factorial place and the control territorial factorial factorial actions at the control territorial actions at the control territorial factorial fac

Ann Line Broke Age of the Section of



for added pleasure...See Old MEXICO

M			
		F1 - 11 TH	_
		Commence of the Park of the Pa	
		THE RESERVE TO SERVE THE PARTY OF THE PARTY	
		AND REAL PROPERTY.	THE REAL PROPERTY.
		an i hona a	MORNIA
	Maria Maria		
			GAN.
		THE RESERVE OF THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS NAME	Mark No.
	24		
-		SAM DIEGO-CALIFORNIA ELL	
- 6	H mule british to	a distribution that the second of the	
4	- A Breet W	the state of the s	

A L H mark many la				
A - A heart 4				
			A Shipping Robert	
at I was too my	hy		1 e .1/4 - 1/1	п
P. Louisian				
A1 484				
110		, li	a Maria	
Lawritzeren be	A STATE OF THE STA	To region	Air Bi	41



# Vacation Enchantment

Pleasure-planned for you by

### AMERICAN EXPRESS Travel Service

New scenes...excuing friends...lighthearied laughter glamour...exaps from everyday rounnel These are hims of the many pleasures that plaused travel by American Express Travel Service can bring.

Description was to travel...in the U.S. Bermuda, Mexico. West Indies, South America, Hawati, Europe's America you'd have to go...by land, sic, sea... American Express will plan and arrange each untorgettable moment,

Weste the nearest American Express other today for literature and information on any place in the world where you'd I ke your pleasure planned by our travel specialists.

Ine further details contact your Travel Agent or American Express

The Commands of Queen Shadeth is June 2, 195 v for ship or per accommudations, register word

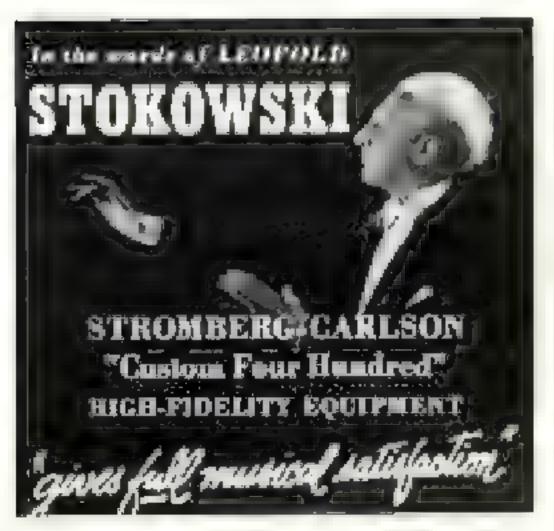


65 8 andway, New York 6, N. Y.

THE REPORT OF 2-841-65 · Eliza III L K . I · L Able : 62 No. of the same AN THE ATTENDED Serie ( Au Filia ( Au -Barting Tables & 6 - A 15 16 16 1 بالدوم والمراج والمراج والمراج المراج PITT HINGE 77 (315) TANT LAKE CHY TAN DIEGO SAME FRAMIDINGO TAMES F 70 20 40 7



WASHINGTON, D. C.



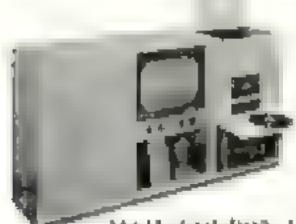
Plant the contract of the cont

### STOKOWSKI STATES:

The discremination mass lovers who we are here give the product of the straight and at the product of the straight and at the product of the straight of the s

The harmous particles we bedieve in processing and a facility to the large of the l

All these testions or give expredience it by to quality that well are fell mercal satisfication to the discount of the discoun



MAIL COUPON JOB PROPE BOOKEFT

	A DOMESTIC AND A SECOND CONTRACTOR
71	The sector to the contract of the sector of
( )	t at da -
	The Television of the Control of the
467	
	- n

in entertaining and or perfect combad.

Land of high his king some for Production has been discussed as a land of the state of the state

A chosm hads for skie count body the nest street that the count street from the count street from the count street from the count of the count street street from the count of the count street street from the count of the count of

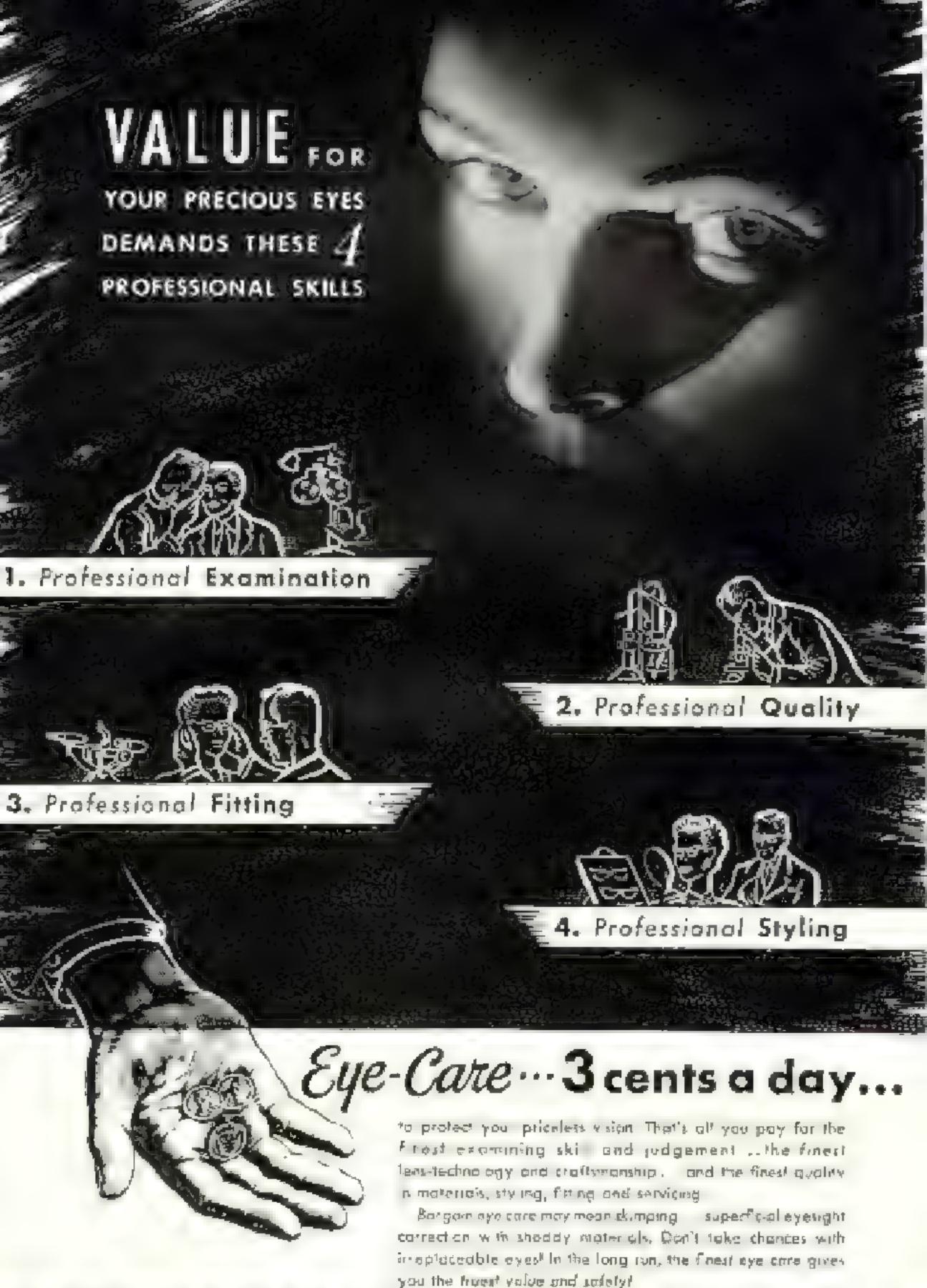




THE PROPERTY.	0007			_		
Ontario Ir IrJ Partice			Tors	nio 2	Deter	3-
Plettie austr full kopk ei				an end	<b>0</b> 4 po	ga (benter-
Nome	m		r	- 1 1 - >		* * * * *
Street	,	T.F.T	,	4.4	4	

tennia. For hardher information, send-

for wood Fart Isophian "Fain and



Her Massa Institute was 632 Eith Avenue, New York 2-1 H, Y.



ARIZONA and CALIFORNIA are life for a certical accurate a Nature has been laved to per active or resultly and a factor of a month of the later and a gloridate apprising

Travel to Southern Arizona or California

And when you go, go on ....

# GOLDEN STATE

Lisa Fare

on your railroad . . . the Rock Island

A trip on Rock Island's manterell-tites as the proper prelude to your east in the west Diesel-powered, and-conditioned, perfect appointed for travel constant. The Condition has a large from I brought to the affect the distribution. The large to H Parish and Dong and Phoenix. Pales Springs and Life Ampelia.

Accommedations are ample and raced choice of provide nearly, at 10.20 for an Chair Coaches over posting on that with 50.00 Hollow realising cuts with all right top tests reserved.

to a section of the s



Α β Μη :

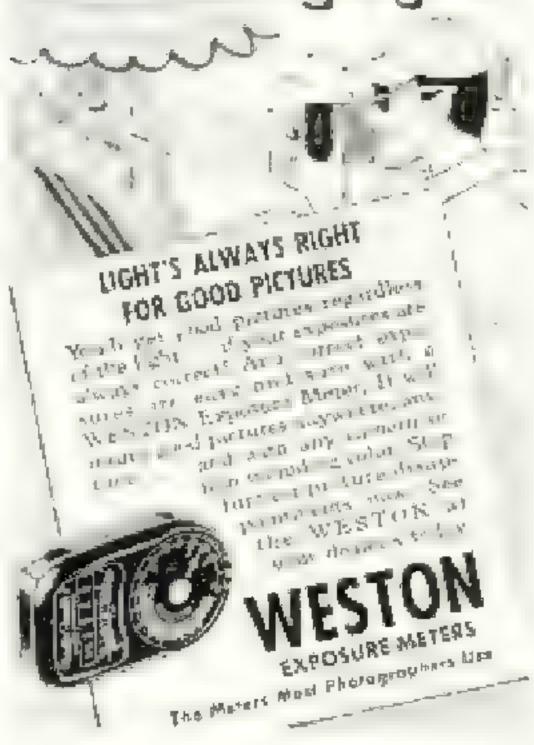
Come 8 1 1 Μη

4 4 1 4 που

2 4 Μη 2 5 5 Ευνικα

1 4 μου 1 1 που

Dim or dazzling bright...



### NATIONAL GEOGRAPHIC'S New Ten-color Map

### The Far East

- \*\*MACKOROP FOR TODAY'S NEWS, the wolltimed map—with a special Inset of Korea which accompanies this Issue, shows places appearing daily in your newspaper. It is but one of more than 40 ten-color National Geographic Maps of world areas upon which you can locate tritical events influencing our affairs at home and obroad. Indexes available for most of these maps, describe the areas covered and make easy the limitation of place permiss.
- For add his of copies of the superb Map at the Fat East and for a <u>complete</u> descriptive tot of the tamous National Geographic Maps we elso the Society, Dapt. F.J.
- MAP PRICES: On paper, 50s noch; on fabric, \$1 each, patipaid. [NDEXES: 25s noch postpard

NATIONAL GEOGRAPHIC SOCIETY Dept. F-J. Woshington B. O. C.



Auturn Color in Gorgeous in North Carol ma's Latury Levit on and Where in Blue Redge Parkway Sours Over a Mile High and through Existing Lature to the forcest basedy Mount nos National Park

Every year more pende ness r to the Crear Schools and Birs Pale Marines of Notes and due to the pende of pales.

Exercise in Section of February and South for the property of the Section of the property of the section of the

And the the process of a Name of the Name of the Park, and Name of Name of Name of the Park, which opposed Name of Park, which opposed Name of Park, which was a process of the Park, which was a proc

fill edde for a state in he Atlantic contifer sail when their when his manner the proper a probability

### STATE TRAVEL BUILDAY

I am a Indian Variable to the form

\* man

.



DUTSIDE U.S.A. WRITE TO PAILLAND S.A., STE, CROIN, SWITZERLAND



### brilliance, clarity, power!

mande with the same sopreme optical pression on the world formula trice complied to the control of the land of the

E. LETTZ, New, 2014 Hudson St. New York 17, N. Y.

### 38-DAY CRUISES TO SOUTH AMERICA

Good Neighbor Lieugue of Larre phile from
Now York for Translate + Run + Sapera
So Logia + Mondes also + Papara Agres
Logia (MPD) Translation

Send for 30-litage from this him. No. 1%.

### MOORE-McCORMACK

Fre House way

New York 4





BOUND FOR A GAY HOUDAY II THE BOOK OF THE person, for any or take a for any his clear bar a to the all poster a feet or · M AIR FRANCE COMME for, the et al. of all 1 % to be a fill In a series present series to all states a relative A the life country of San Laborates a result of the

### Go AIR FRANCE ....

Enjoy these "extras" in LUXURY and GRACIOUS LIVING ... the ULTIMATE in air travel .... at NO extra cost!

PIONEERS IN GLOBAL AIR TRAVES: 12 Mars a continues to see a secretary of alk FRANCEs world wide one leaves the contraction of term to the AIR PRANCE parent to a recollect a real does the transfer of the first of the first

WORLD'S FINEST AIR CUISINE: Planting I am I to a gridge france id best, prepared by AIR FRANCI ---as the order of the observation of the contract of the same of tallity and the title of the 51 1 P













SEE YOUR TRAVIL AGENT Ait Prance

Anal & Sin 4 1 1 1 Should be well



RERAN 本的 **电子 医皮肤 医二氏性 医** 一种 O 新作的 - 194 LD E / 学术配行 M E

"THE PARISIAN"

Y 1 1 Se a section of fral xt

"THE PARISIAN SPECIAL"

### Now! For only \$785

# Add Sound to

your home movies

With Revere

Sound Movie

Synchro-Tape

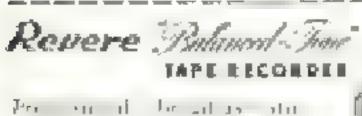
Voices! Musici Sound Effects! Perfectly synchronized with your film!



### Each reel provides sound for 800 ft. of 8mm film and 1600 ft. of 16mm film.

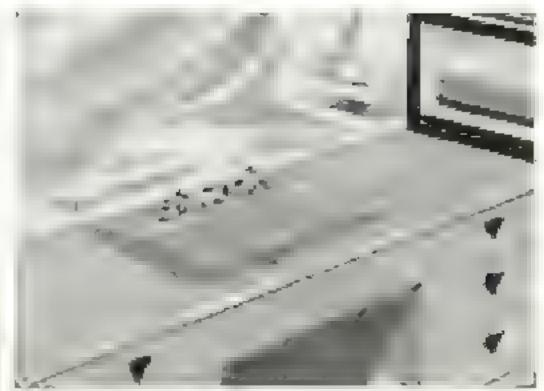
Revere Sound Movie Synchro-Tape makes it possible to add sound to all your or door new silect usevers it a vice as and control of a first person in a control of a first person in a control of the person of processing necessary. Reshow again and again and again of the according to exact the make changes or for a sew recording Arcs interest and furt to have movies. The exact as a self-time to business, school and club films. At all Restrict a thin to have (600) roll Synchro-Tape Synchro-Ta

Revore haven there Symbolises at white followed out on as a series the first of the last the pay at the series of energy and filly. De-





See 12 - Payer Ca le for 1 lest teleproduction and 1 mars at ELVERE CAMERA COMPANY + CHICAGO 16



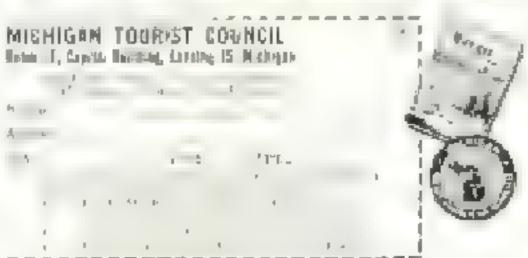
### Case brings to your bathroom

### a new CONVENIENCE

LICE OF THE STATE OF THE STATE

W. A. CASE & SON MFG. CO. ...





# Vouil Get Along Fine

ON A

# Treamliner

TO AND FROM THE WEST





# Treamliners

"CITT OF LOS ANGELES"

Letween Chicogo Los Angelesi

"CITY OF SAN FRANCISCO"

Between this age Son Francisco!

PETTY OF PORTLAND"

detreen En coup Partland Tocome Sectife)

"CITY OF DENYER"

(Letwinson Chicago Denvirs)

"CITY OF ST. LOUSS"

Delinear St. on a Karrow City Pin Ac Casus

A 12 3 as ly service from Chrosps LOS ANGELIS LIMITED., SAN FLANCISCO OVERLAND. COMPA DOLD COAST. Rest as you ride. If you re looking for comfact in Pull end of a order of a continuous for pleasant diversion in Club or Lounce care for tops quality meals prepared from fresh foods ... then you'll get along his on any of Union Pacific's daily Streamliners

Fine Trains Fine Service - Fine Foods

### UNION PACIFIC RAILROAD

ROAD OF THE Daily STREAMLINERS

Me at an the National Geographic - It liberts 0 as you

# FOR EVERYONE WHO DWNS A SUITCASE...





- \* Warks anywhere on either AC or DC1
- \* No more scorching—heat automatically contra led!

alighands, a copacy tick I cavelless weighted as a property of the contract of

This time wanter or a skill or both Mand Bk. The characteristic Dediction for the fact of the fact of

degree has a be selled to a section



Seat Applements

Prince and a Committee of the party of the p

Hen van put your confidence in

GENERAL & ELECTRIC









Gaing Away to School?

Total Marines of his

William the the sales

des la beautiful

مجتبا ومراز منا وأطعام إراج

attack of the second of the

- Une to the P. I do not be tolling.

ABOVE ALL!

the Letaland American Statemers stouts alone all others. It is America's process that mery war a less the quantity, for wangle has a bounds to be analysis of anothers, and the quality erispect to a paper. And the part of a bound paper.

know sheet and envelop as parted with your manage and address in radiobles and.

The sac, the sack, he was strong the property of the Alexander Manage and Submitted that a most before a submitted to the Alexander and Submitted to the Alexander and

THE AMERICAN STATIONERY CO. 300 PARK AVENUE, PERC INDIANA

STANDARD PACKAGE
100 New TENNETH OF THE FACE
LOFES, hiera for informal a new
200 magnification for information correspondence. All nearly \$100

DELLIKE PACKAGE

125 LETTER SHELTS (Ob. 2

125 LOPES, all h. Assurer p. a. A.

if the five on a fewer as

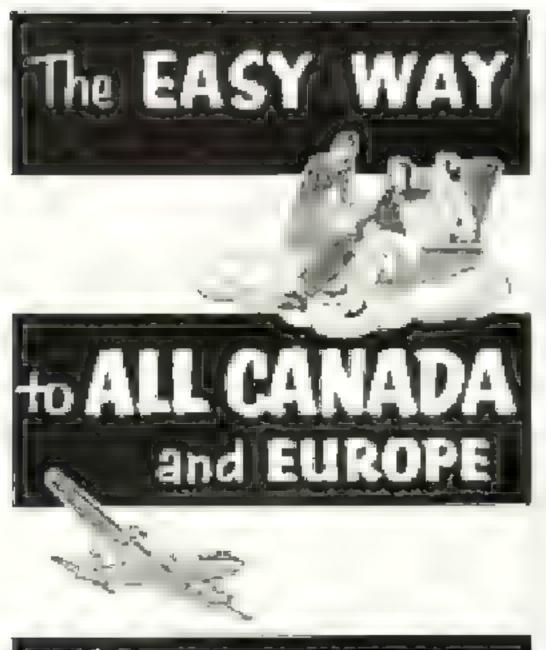
yet News county \$200

will a new access \$200

FACKAGE IN COMRESPONDA
FACKAGE IN COMRESPONDA
FACE CARDS 13% v. 0. and
190 (1904) CPS v. 0. and
2 pp. lim p. v. 10 and 200
A area of factor v. \$150
Year of the contract of th

Description of the William Company of the Company o







IT TAKES LESS THAN A DAY 's ' from the Tipe I had house 1411 151 المالية فلات والمال i de la constante vile epich pite, I to a property of

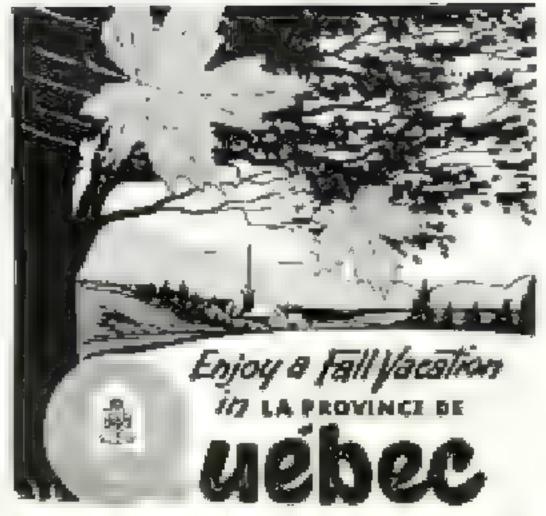


No. 1 and 1 pp 5 may be at the contract of 11 1 1 3 . . . TI 3 -I THE STREET a to little to the



Dee entractaments from New York Chienge, CLATON W P POOR . Lieve end Monton, South Me Mann. Scattle Foramia, Tamps St. etchours

		"a nin war old and I make	
	F		
81 to 1	Secret Fr	AN 200	
1.7 mm m 2 mm m 2 mm m m m m m m m m m m m		The transfer of the second	
	h e mer		



The military to age, it's where we reglar the reference to the restrict to the first terms of the contract on the the sense light and the requestions to the and a larger sit. n me glacke life one white welcome a il trecherente con leggiore di con en in the case that he was

for more and bookers write to Provential Publishers Bureou Parliament Buildings Queuns City Canada or 48 Rock Indias Press. New York JO MY



du un befeiben I Joseph H. and Ph. to Pt. And it the same has 211 4 284 4 finition of the 6.24 31143 k 10 4. 11081 - 1 - 1 11 8. 11 kg 11 der ta i blue. all the Property A TIREL LABOR ILlin out of p

II PIP - colden E practice in the trataget It at keep

Ward the e datapaten STORE OF THE STREET



Same Pulsament FACL SACAT CA France Area es describicher a promitarial es de Moig-Assessmentally on the beautiful to a

Mome Addres Car. Sigle















### Each of these can cause an allergy

A rew GRAINS of ragweed police, for evan pleamay cause "hay fever" a discorder that affects note than 4 mill on Americans.

In addition, indicons of other peoper in our country have assisting species, of gestive upsets, or skin makes because they are allergic to a wide vanety of secondary harmless till ups

Allergy is a semidistriction cutain substances which came no touble for most people. While adergies me or don't if ever, fatal, they can cause great case comfort. Moreover, if allowed to go unuceated, they may undermake good health. This is parachally true of astitue.

Medical science has developed incoming a significative ways to control altergree. For example, inoculations against "hay fever" by p many people to avoid this seasons is intent entirely, or make it much midder.

Treatments for this centra on are in withere tend, between, when taken well in advance of the pollen-wasen. In fact, at least 85 pe cent of the patients are televed through early treatment, but only 40 percent are helped when toocalasticms are delayed.

Redef from allergues due to obscure causes gen-

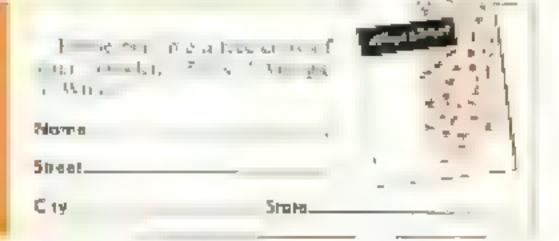
the dector axes detailed questions about when, where, and under what give him eiter to the condition occurs. Such questions give him eiter to the identity of the objections gate him eiter to the identity of the objections gate factors—such as emotional opsets—may be involved.

Once he has found what causes the altergac reaction—through the bittory of the case supplies mented by diagonal cases that terms—. — and find ment can be trained.

This may be simple. It, for that we, hip to diserso may be consent by fearth or free may be faid by substituting a pilious made of rubber or othe materials. Sometimes however freshment they be prolonged, especially if an avergy in caused by a sensitivity to many different the con-

There is no "sure cure" har any type of altergy, but prompt and proper treatment may lead to its control. So, if you are bothered by an afferga condition, even a in nor one, custoalt your doctor. He or 4 tecommended specialist, may help you nated further reactions through treatment that effectively releaves three out of for treases.







### How many mousefish can you find?

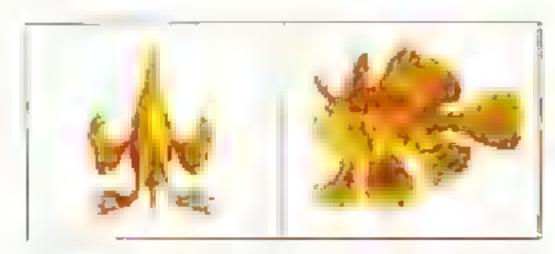
I'ver name, is really hard to see.

for the moments of there are four of them in this picture, lacks the ancasced, even to the white dots on the found-franged body that seem to be worm notes. As a nearly, bon too boking for a fish dinner, are likely to pass Historo by as mother but of floating reperation, not paramote at all.

Clever as the camoulage of the mouseto's to we'd use to mention that man his improved water y on Thispers and mature its coping with trouble. Not only buy man devised ways to fend off trop big, but he has also reguired in the way to keep unayord, his mishaps from gusting him me.

the does the through insurance accelent, if is, here, brightery, and or ar kinds. And to solve his insurance passive and make his insurance do the heat july possible, the wise man seeks advice from an insurance specialist.

Near you is such a specime, your Travelers agent or broker, Call him in minimake the partners the make kinds or mourages and emagic of each



the subjection procedure rocks like It you got that four in the picture above you can get held hand the discretion on second place following editional testions

MORAL: INSURE IN

### The Travelers

Immian e Contagos, Harmord 14, Laune text

ALL FORMS OF INSURABILITY AND A REST E MIST

# COMPARE

WITH ANY OTHER PEN IN THE WORLD!

### bend under any normal conditions.

Wan't spread or

· CUP

Jouen Down

AIR-FEAL HUMBOR CAP

haupi point moist ready to write.

### **JOHCH DOWN**

GREAT CAPACITY Slimmer, trimmer, yet has large thin copecity because it

### losen Down

**非典某人严重的**" EXCLUSIVE POINT PASHIONED FROM A 14K RING

Greatered in 14 individual styles to fit any handwriting.

Marine park Street, by Smaller's



If you got nothing more than Thurs Durin you'd get more for your money. Ask your dealer to demonstrate Touch Down one-stroke filling-then make your own comparison!



SHEAFFERS

-----

processing of party. 等。44年第1**9年**(1

W. O. HERMANNERS STATE O'CONTAINT: PART MANUADIS: TERM. D. R. R. 10 DANKERS MANTON. CONTAINS

# Color movies cost less than you think You can match this gargeous color movie —in seven full length movie secnes — for under \$1

has themps, an elegan this was a man and the property of the p



Up and over the control of the contr



Some Contracts of the contract of the contract



Having a bay folk of over trace of the construction of the constru



Obstances and mess to esselv our many to esselv our services of the terms of the te



The pupils of company or the property of the pupils of the



Has see base to see that day

# Brownie Movie Camera 34330

I half a plain to a solid period. Brownie,"

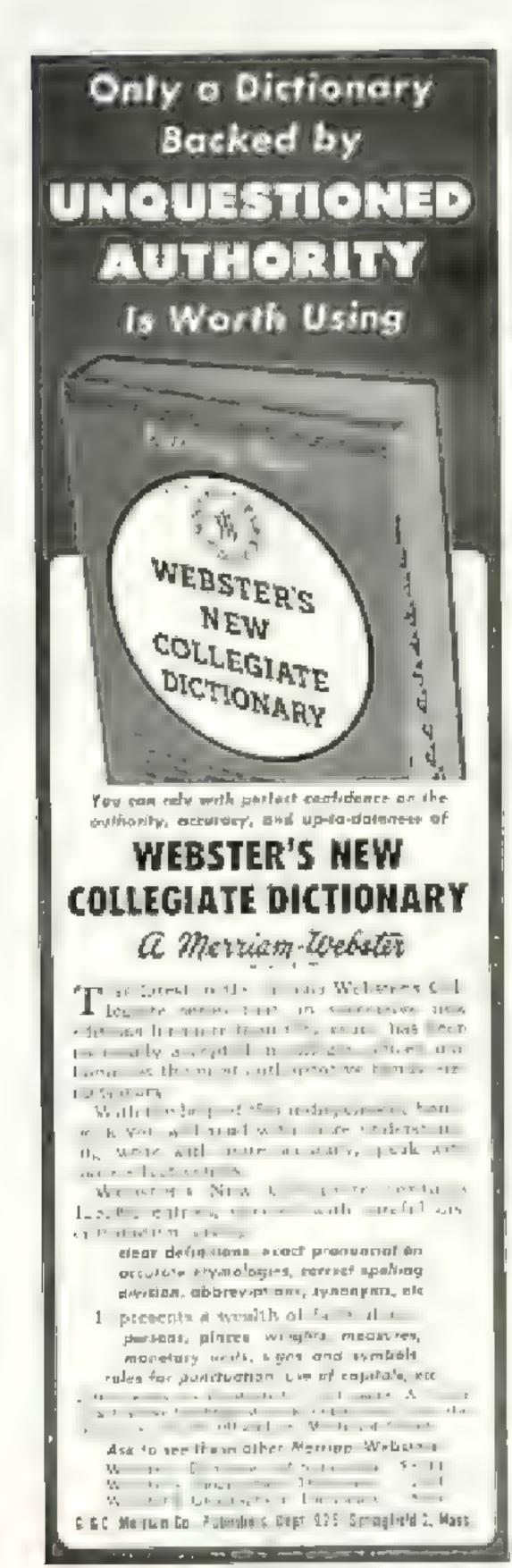
to be a subject to the formula block the research to the formula block the research to the formula block the research to the formula block to the research to the formula block to the formula bloc

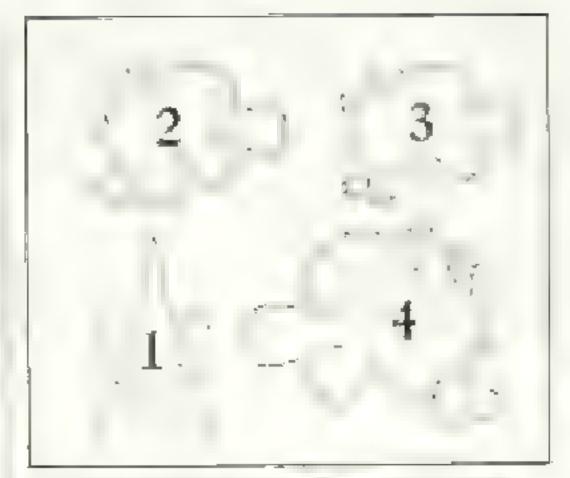
Eastman Kodak Company, Bochester 4, N. Y.

Brownle Movie Compan, Sonn (left) with. 1/2.7 Jens. 543-30

time took k Mare a see a Casser a si of







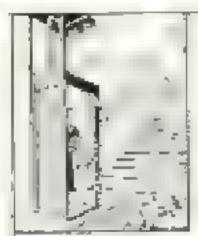
THE PETER LIE ST

Finding the right resultance proglam for entir fam is a case, you, it in fellow the suggestion in that advertise cent and outsultating leave exage the six

MORAL INSURE IN

The Travelers

ALL FORMS OF INSURANCE AND SURETY BONDS



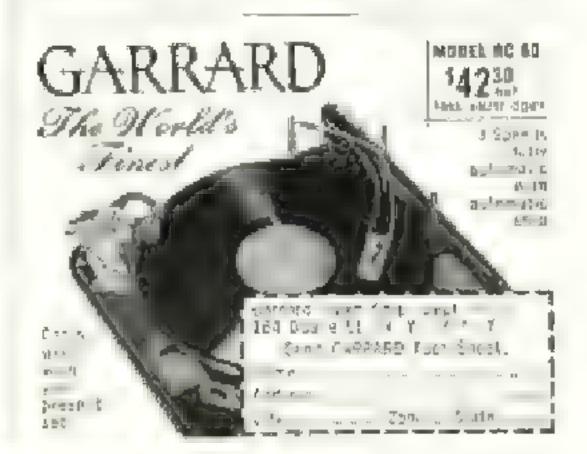


THE SHEPARD HO ME. IT DE Exploid Tip ske proclace so littue for the family ofer extend per on the district r white dradgery Sale empetation to and thereto the betrain the all distinct .

SHEPARD

and priced with a the formy budget Represes letyes in a protection a tier. Write for descripfrom but offer.

5. 4 1 learn ston Food





MRS. ELEANOR ROOSEVELT

Many to see and the settle of the settle of



HONORABLE CHARLES EDISON

Service of the service services and the services of the servic



MR. AUPERT HUGHES

fullys in your 1 to a product or appropriate to the second of the second

These three great

Americans can afford any
type of hearing aid

at any price. They wear
the seventy-five dollar

Zenith hearing aid.

### Girls' Schools

· Mas N. 10. desert in Manage, he p

1 14 4 14

THE KNOX SCHOOL

LASELL JUNIOR COLLEGE

Dartiam Nation : Proc., Due 2019 Buene Venta ha.

### Coed Schools



ELGIN ACADEMY: 5 t y 5 t y 5 hat their Weste for materies Belmatel P. Browner. 117 Academy Place Elgis, Blancas

Home Study

### 7909 Rudte City N T. 20, N. Y.

### SCHOOL-AT-HOME

Kinderallier trough 9th Grade

1 4 5 1 1: el so a bit to a state the fact that the same of 1 4 40 20 11 11 a many lyne (i) a per THE PERSON fer in the first 4 11 15

state is to write any extra 1, 11, 20 1 0 THE TELL . le la serie

CALVERY SCHOOL

AN THEGORY NOAD, bestiment to, mp.

### rapknakez

also a sub-

STREET, STREET, hall the

1 7 1 ver non attificher aucheit bie birbe

. WITEMARS' I . . LINGUAPHONE INSTITUTE

### Line and Applied Arts

ART INSTITUTE OF ! A fifth Fast date till hell treet pain toget from r Ant for Faction & Willen St. Berman, Ger 635 Sept the Parist St., Printerpose 127 Paris

Colleges for Men

PENNSYLVANIA MILITARY

Man of Admini was Dupt. L. Chapter Pa.



CHecking of SouthWarp Providerses II R 1

### FRANKLIN TECHNICAL INST.

Bernetey Street Bearge 15 Management's

Bunn, 20 Maribaraugh Et Bongung ich fig E. Superior St., Glennye 22, 232 Park Res., Mem Turk 12; Managemer, N. J. Price dance S.



the second secon 4 . 4

### Boys' Schools

### ADMIRAL BILLARD ACADEMY

4 C, 1 ( ) Angeler process of the process of the F. M. Lagrance, Name & American Company Security

TARE 27 90 THE BIG BOTH 1

### MILLITARY ACCORDEDLY 1 1 1551

La I, Can & Dist pr Barr M. Dr. Dorfator v. Single p.



BOLLES SCHOOL 1 7 9 Pagestrer, Des SUIT N. Jacksons Le Flurche

### BORDENTOWN MILITARY

I while it had not be n A Tay a 9 1 9 Registrer that \$25 Burdantsum, New servey,

### CASTLE HEIGHTS MOADERY t I i t I v r c

Call H. W. Armstrong Press Laborate Target

CULVER MILITARY ACADEMY On Loter Manthia line 11 as a

29 Persburg Walk, Cities, Indiana.

College Properties, Naval Teaching IX s distributed from the second Receiveration progra- t r h h Asteries Perropal Scadomy, 1 East, Intern Avent, No.

### FISHBURNEMILITARY SCHOOL

to any to the second to the control with a Col John C. Macro, See N. L. Wegenslotte, Verginia.

### MI 1417 高麗子 FORK UNION ACA FEMLY

An one Services Plan a Charge Br A C Wichiga 699 300 Facts General, Val.



7 11 4 9 7 Int class to the transfer of Children No. Brancto , Pres. Course Part, Courges

GREENBRIER MILITARY 

Cat D T Manie Pagratian, Gas N. Luwishing, West Wageing

HARGRAVE MILITARY ACADEMY 

and the same of th Col. d III Conty M A., Proc., then b. Chathann Vd.

### HOWE MILITARY SCHOOL

Mult an late a maje the t A<sub>1</sub> . A 1 1 1 1 3g 14 pt 5 are, B. S. Straton, 69 J for banders, Ph., Streen, bush.

KEMPER MILITARY SCHOOL

The same to Dir. of Austr., \$1954 Third St., Bonnestin Con.

KENTUCKY MILITARY !.... INSTITUTE TEST TOTAL 

MANLIUS PENNA, MILITARY PREP

### MERCERSBURG ACADEMY

Charlen S. Tennatte. C. D. Gas AN. Mercersman E. D. n. sayswanter

MISSOURI M START ACEDEMY AND

1 1 1 1 1 1 1 1 112 t 1 4 4 51

Co C H. Stationer 202 Many St., Mantes, Ma.

### MORGAN PARK MILITARY

turday Box 782, Margas Pich. Chrongu 14, 84, 65 M Bitaner Box 591 Owatonia Minnappip.

31 8 3 7 8 107 - 7 13 7

NEW MEXICO MILITARY INSTITUTE

1 1 250 92 1113 1 1 1 1 1



work will L capper & CHOSCH & BEEF CONTROLLED Kem Yach Mantary Academy

Hamilton conscionalists available

27 Arg - or Arm at Corners I an H duby by T

GEORGIA MILITARY ACADEMY NORTHWESTERN MAY AL ADADEME

process for the state of the st

### OHIO MILITARY INSTITUTE

- P - P TARR Befeinert, Cattege best Charapitale 24, 0. 1 10.



### EQUICATIONAL

Indicarduality and Phage Barth Studenty & Chein.

t o d Charles of the second of the s

1. . . PRINCIPLE PER ALGORISMOST ON 10 poster says of Werbe fcommand II. Resignet, 1th (1 Bir-

### OXFORD ACADEMY

Ben G. Bir. Premannifedbir, M. A.

PEDDIE (17 27 Age) 1 41 4 1-1-1 1 1 1 1 Cat C. M. Michaeller, Pray. Bus M. Lynder No., Dr. C. O. Madeng Bus S.M. Highlebens of J.

M. Wanner Martin School, Martin, N. Y. 1. C & Stell Dagt S, Charles, Pa.

eekskill The bearing of the proportion

PILLSBURY ACADEMY

MERDINASTER MOS 100. PERSONA, N. Y.

REVERSIDE MILITARY ACAD-, , ,

But F. Butwall, Non-Meason, God Lands Books, Con. 202 W Go manife Ga.

ST. JOHN'S MILITARY ! . . . ACADEMY ...

tion 1382 De Novom Hall Goldton, Wes,

SHATTUCK SCHOOL Grapes 9 13 A 4 11 4 4 114 4 THE REAL PROPERTY.

reduceron, 629 Shuttenay Blatt, Parebout t, Burge.

The second of late,

The secon J. Tas Saturas ! II A STALL LANGUE OF A DE MAS C COURSE NOIT he

U. S. ARMY INSTRUCTORS, Founded 840

Washington, IN Mg-4.

INSTITUTE PER STATE standal 41 m flor offit . I a to a fine 19 Ser L. Smarn Hal, 1984 Confest William stein. Call C. A. Endeley Bon 147 Smartweiter Prop.

> THE TODD SCHOOL 9, 2, 41 11 12 11 1 The lates 31 2

"At the Wallers's Shore"

the tree between the same property The first state of the section of th t to a first the state of the s

WENTWORTH MINITARY ACADEMY

Summing to Make 1 to Comment Cal Sources, and Weath, Plate | bestegten Bu-

WESTERN MILITARY ACADEMY

1 ( 5) ( ) ( ) ( ) ( ) r ver f 2 2 9 P1 · · · · · · · · · · · · · · Col. R. L. Jaconson, Roy. M. P., Sefent. Alternation.

WORCESTER ACADEMY

1 1 1 1 1 1 1 1 Prod H. Phelisps, Hitter. West as her Acudamy from & Westernfest, Mannechmutte.

# Clean Protection.. for Business-Professional Books

Distinguished modern Globe Wernicke sectionals provide clean handed reference books in executive and professional offices. Besides doing away with chest smudged fingers, they keep pace with expanding needs. They adjust readily to any space agrangement. These original sectionals are ultra-modern in design and sectionals. Figure class or receding doors. Genuin

natural wood grains, hand rubbed to superb finish, are Mahogany, Walnut, Softone and Quartered Oak; also imitation Walnut and Mahogany. Closed end models have either swing hinged glass doors, or open fronts.

See them at quality furniture and office equipment stores; information and dealers' names gladly furnished.





CHARGEFUL IN BLOOM BELOW, DEFECT, AND MAY, TO THE RECRETARY

### Recommendation for Membership

IN THE

### NATIONAL GEOGRAPHIC SOCIETY

\* The Membership Dues, Which Are for the Calendar Year, Include Subscription to the National Geographic Magazine

	y, Ivational Geographic Society, treets Northwest, Washington 6, D. C.:
I nominate	PHINT MANUE OF NUMERICA
Occupation	(This information is important for the records)
Address	PRINCE ADMINISTRATION OF THE PRINCE OF THE P
	for membership in The Society.

Name of nominating member

PERTER STAL

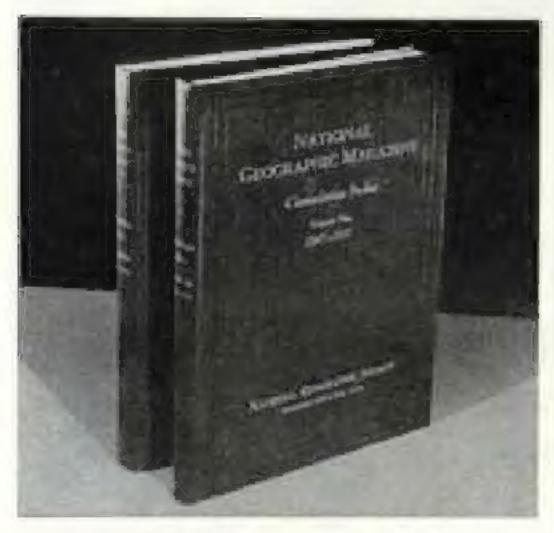
### Address

"Int's Sembership, 1350-00 U.S. Land. Resolvance should be much by New York and or international money order.

0.32

# NATIONAL GEOGRAPHIC MAGAZINE

### CUMULATIVE INDEX, 1899-1951



In Two Volumes, 1899–1946 and 1947–1951. Now Available at Low Cost, as a Set or Separately

THE NEW, 388-page VOLUME II of the NATIONAL GEOGRAPHIC MAGAZINE Cumulative Index places at your finger tips the vast realm of up-to-date world knowledge in 60 issues of the NATIONAL GEOGRAPHIC MAGAZINE from 1947 through 1951. It also includes a history of the National Geographic Society and its Magazine by Gilbert Groavenor, with 119 illustrations.

Used with Volume I, 1809-1946, it makes a two-volume Index containing 27,000 references to topical headings, nature subjects, authors, titles, maps, and pictures. With these manter keys to geography, you can instabily select and locate material on subjects in which you are interested to 636 issues of the NATIONAL GEOGRAPHIC published during 53 years. The Magazine and Index together make a comprehensive gazetteer and pictorial reference work—an unparalieled fund of information on the whole world.

This 1,044 page, two-volume Index is made available as one of The Society's educational services. Bound in blue cloth covers, 7 x 10 inches, these volumes may be purchased either as a set or separately. Prices, set of two volumes, \$5.75 in U.S. & Poss.; elsewhere, \$0.25. Single volumes, \$3.00 each in U.S. & Poss.; elsewhere, \$3.25.

POSTPAID, OBTAINABLE ONLY PROM

NATIONAL GEOGRAPHIC SOCIETY Dept. F.J. Washington 6, D. C.

# "I drink all the coffee I want...



get all the sleep I need!"



### DON'T STOP DRINKING COFFEE ...

Wire don't you enjoy wonderful coffee and wonderful sleep? You can—simply by switching to caffein-free Sanka Coffee! Caffein adds nothing to coffee's flavor—yet it's the caffein in ordinary coffee that can jungle nerves and keep you awake.

Mallions of wise people have switched to New Extra-Rich SANKA COFFEE! It's one of the most Bayorful coffees you've ever tasted, and it's 97% cuffein-free! It can't keep you awake!

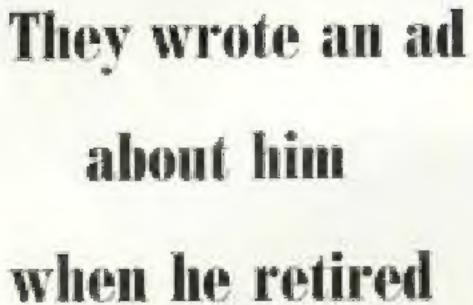
DEUCIOUS IN EITHER INSTANT OR REGULAR FORM

Products of General foods



# SANKA COFFEE

It's delicious! It's 97% caffein-free! It lets you sleep!



Cremtail has left a gloss of cherriciness.

sands of individuals through the yests.

"thange the address of thousands".

ING NO. N. INCH

NG PR

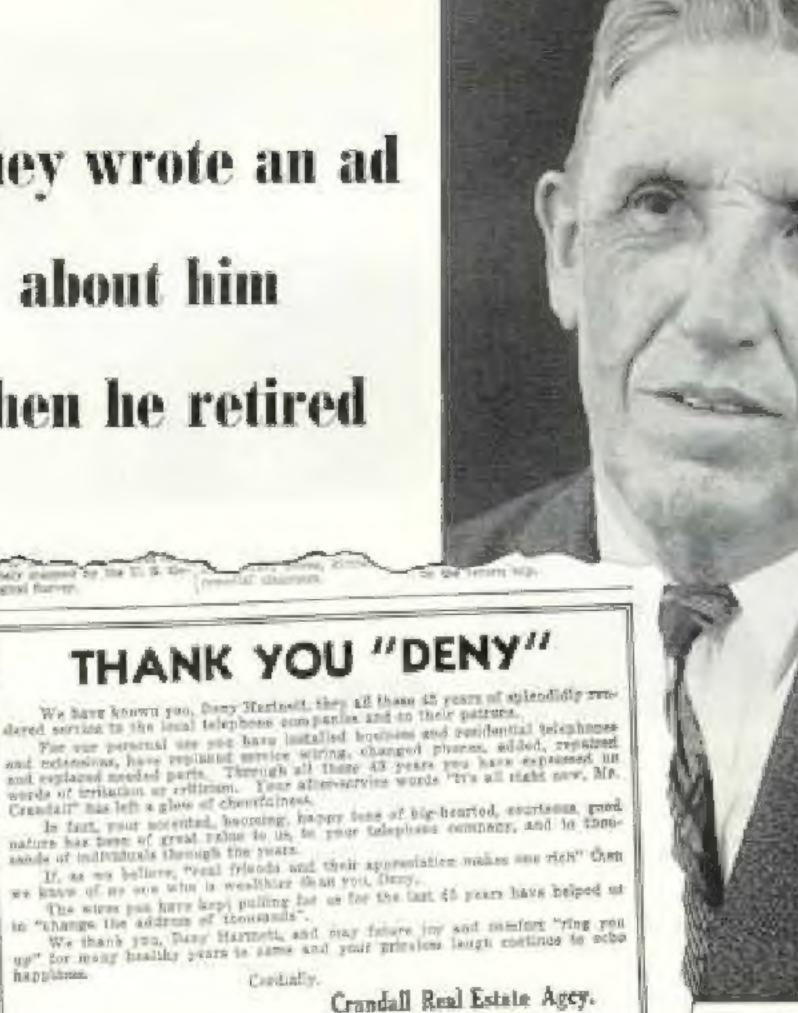
Chican 890FW

L GAME

1 912 7500 good and

SERVING. 10

napplanes.



### Denis Hartnett was "Mr. Telephone" to thousands of people in the town

There was many a word of praise and affection for Denis Hartnett when he retired in Homer, N. Y.

Conductly.

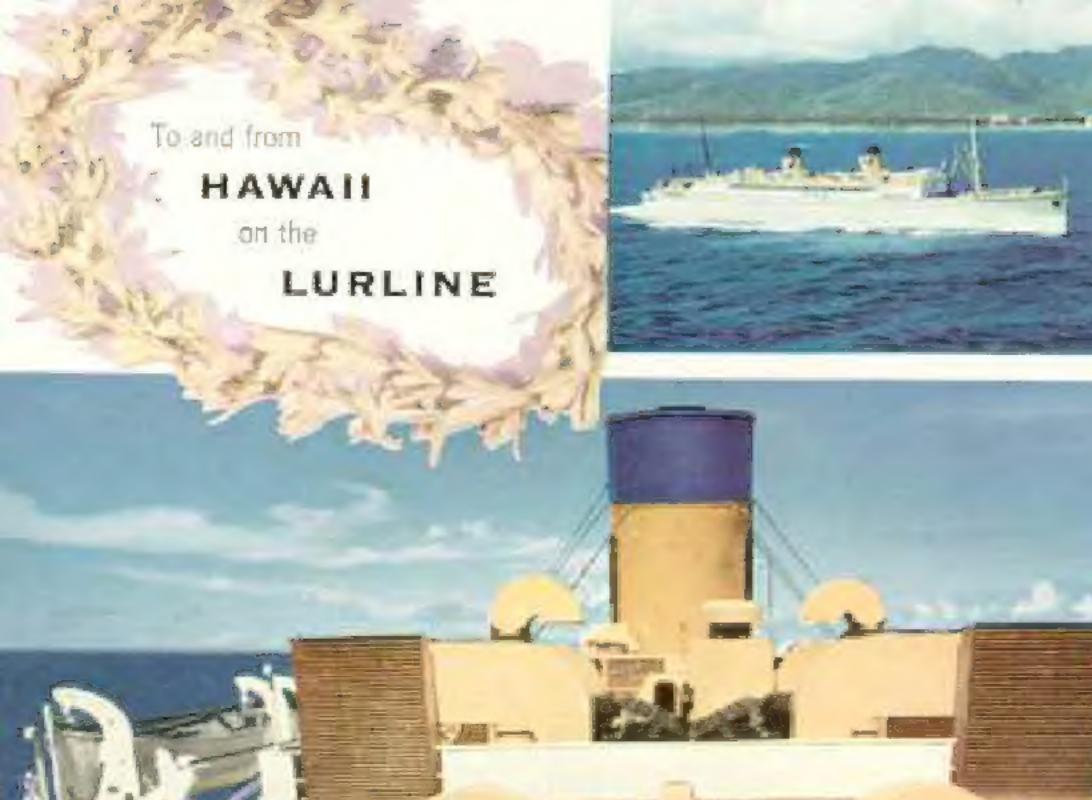
In fact, a local businessman walked into the newspaper office and said he'd like to run an ad about him.

"Good idea," they said. "Everybody around here knows Deny."

The advertisement is reproduced above - a tribute to forty five years of faithful service. The story of Deny Harmett illustrates the local character of the telephone MISIDESS.

For the telephone company isn't something far away but right on the main street ... managed and operated by home-town people.

Their spirit of service makes them good neighbors and good citizens as well as good telephone men and women.



SCHIEFFEREN

The sun sparkles bright in the soft, salty baseze ... shouth and laughter lift in lide happy bearted sport ... you chuckle at carefree shipmanes and you'm glad to be alive, this lovely, lazy day about the LURLINE. Sailing to Hawali or hamebound, your LURLINE cruise is filled with just such untergetiable moments.

For room the ship as you will, from swimming pool to dining room ... from sun-swept deck to quiet lounge, you find triendliness and galoty and boauty everywhere.

Add the comfort of your air-conditioned stateroom; the matchless quickle and service; movies, dancing, games and parties ... it's a wonderful wondlion covered by your round trip family

New You... New Friends
New Ways to Relay

IN THE FREEDOM

OF A

GREAT OCEAN LINER!

Now York, Chicago, San Discreptor, Exercise, Springs, Landergrows, Lan Green, President.

Matson lines

THE LURLINE SAILS FROM SAN FRANCISCO AND LOS ANGELES ALTERNATELY